



System 800xA 6.0 Product Catalog

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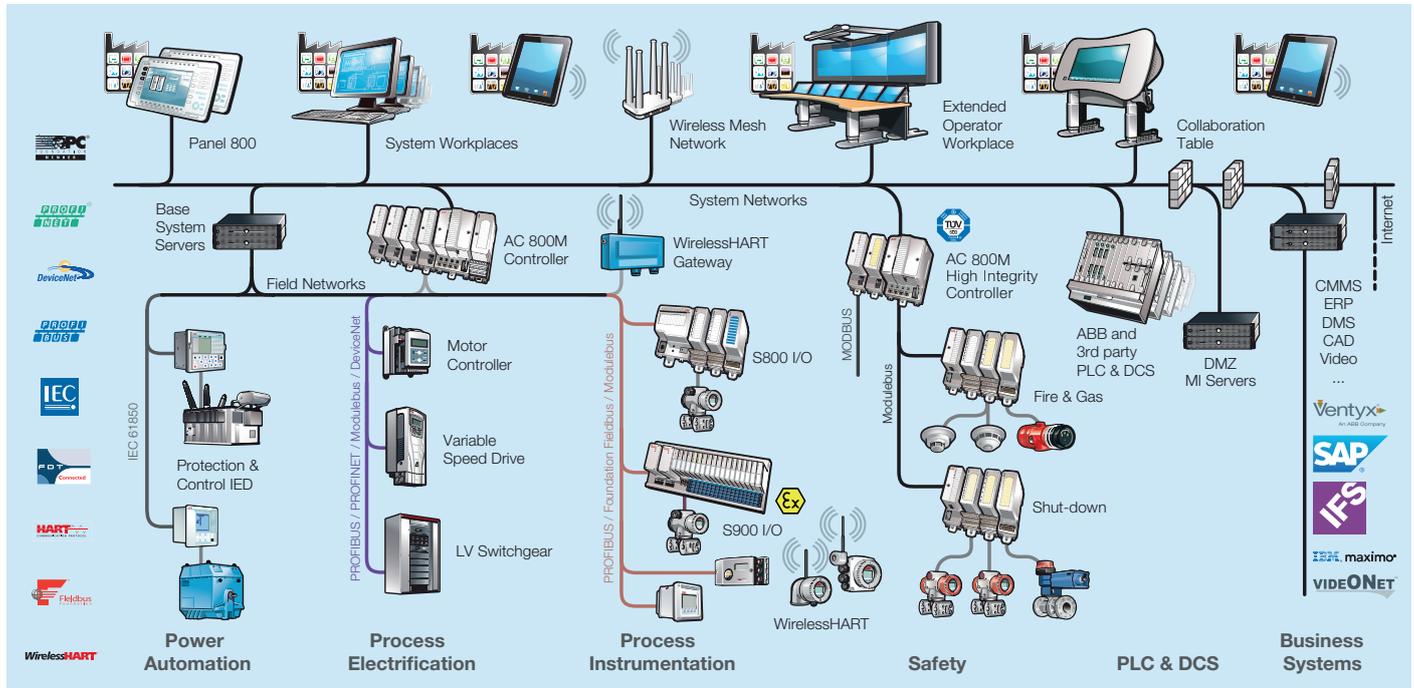
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System 800xA Extended Automation

It's all about control



800xA is not only a DCS (Distributed Control System) it's also an Electrical Control System, a Safety System and a collaboration enabler with the capacity to improve engineering efficiency, operator performance and asset utilization.

Promoting collaboration

Collaboration between people and systems is a necessity to increase engineering efficiency, asset utilization, energy savings, and operator effectiveness. System 800xA's 'x' stands for Extended Automation and utilizes the system architecture which was built for collaboration. System 800xA is the only automation platform that has the ability to engineer, commission, control, and operate automation strategies for process, power, electrical and safety in the same, redundant, reliable system. Also, facilitating collaboration is System 800xA's pre-integrated applications such as a full featured historian, asset optimization and batch management.

System 800xA

ABB's award winning System 800xA provides you with a better way to achieve measurable productivity and profitability improvements. 800xA extends the scope of traditional DCS systems to include all automation functions in a single operations and engineering environment; enabling your plants to perform smarter and better at substantial cost savings.

Embracing the principles of open, real-time networking, System 800xA provides a scalable solution that spans and integrates loop, unit, area, plant, and inter plant controls. From providing a secure foundation with robust, but flexible, base level regulatory and sequence control to higher level management and advanced control functions that include safety controls, batch management, maintenance management, information management, and network management solutions, 800xA meets the application needs of a wide variety of industries.

System 800xA provides you with a secure, reliable control environment with minimum effort through built-in security features such as access control, user authentication, and audit trail capability. ABB enhances secure system operations by actively participating on security standards committees, conducting threat-modeling studies, and incorporating "safe design" practices into product development.

Based upon the Aspect Object technology and a common set of hardware, 800xA seamlessly integrates traditionally isolated DCS and Safety systems. SIS realization is achieved by either utilizing individual controllers or through dedicated applications within the same controller. With this embedded control and safety architecture, 800xA reduces costs significantly; achieving the objectives of both systems – maximum plant availability at minimum risk.

For more information about 800xA please visit our web:
www.abb.com/800xA



System 800xA Software

The system installation is supported by the Automated Installation program. The Automated Installation program is a shell framework to ease the installation and configuration of your 800xA System.

Installation is never prevented due to lack of licensing, but licenses are required to unlock features for operating or engineering the system. Updates and security related software from non-ABB companies must be downloaded and installed separately, as guided from the Automated Installation program.

The Automated Installation program is supplied on the 800xA media box. The common part is to specify the system details of your system in the Automated Installation program System Planner and generate a unique setup package for each node (workstation) describing what should be installed from the 800xA media box, or a file server, onto each node, and how it should be configured.

The System 800xA Installer is installed on each node, and then the following steps are executed to install and configure your node:

- Windows configuration
- System Verifier tool
- System installation
- System configuration

The setup-files may also reside on the file server. Windows configuration configures the environment (IP address, host-name, Windows components, and Windows services) connect to the workgroup or domain. The System Verifier tool checks for the necessary 3rd party software and where installations are required.

License

The central licensing system (CLS) is local to each system. Each system is ordered separately, and a separate license file is fetched for each system from the Software Factory. This also means that each system is managed individually updates and upgrades, as well as initial system installation

The software or hardware described in the document is furnished under a license and may be used, copied, or disclosed only in accordance with the terms of such license.



800xA 6.0 System Lifecycle Management – System Expansion

Automation Sentinel Program

Automation Sentinel is the control system lifecycle support program and is aimed at providing services for the maintenance, continuous enhancement and evolution of the ABB installed base of control systems.

Each and every control system under Automation Sentinel can make use, depending on the active subscription mode, of the following main program deliverables listed below:

Software Updates and upgrades

Automation Sentinel users have the exclusive right to receive control system software updates and upgrades:

- Automation Sentinel users with a Maintain subscription have the possibility to receive technical corrections, roll-ups, service packs and software revisions for the current 800xA software version in use.
- Automation Sentinel users with a Maintain Plus subscription receive all what the Maintain users are receiving PLUS software upgrades to move from any 800xA version to the latest available 800xA software version.
- Automation Sentinel users with a Maintain&Evolve subscription receive all what the Maintain Plus users are receiving PLUS the possibility to take an ABB heritage control system (and selected 3rd party control systems) all the way to the latest available 800xA software version.

Cyber and IT security reports and updates

Automation Sentinel users have the exclusive right to access IT security validation reports:

ABB reviews, tests and validates on a regular basis Microsoft security updates and 3rd party virus scanner software for compatibility with the 800xA control system. Automation Sentinel users will have access to all available cyber and IT security reports and updates for application as needed in order to ensure that the running control systems are better protected against any security risks which are encountered more often now than ever before. Each and every control system must be under Automation Sentinel before making use of the published IT security validation reports.

System Benchmark Tool

Automation Sentinel users will have the right to use, at no additional cost, the following service tools:

- 800xA Control System Software and Performance Benchmark
- 800xA Control System Security Benchmark

The above listed service tools are employed to perform health and security checks on the 800xA control system and generate 'Traffic light' reports of the findings.

Expert product technical support

Automation Sentinel users have access to ABB expert and R&D support organizations. This support is being provided for troubleshooting of product defects and issues they encounter during the validity of the subscription.

Program Options	Maintain Basic	Maintain	Maintain Plus	Maintain & Evolve
Basic Deliverables	<ul style="list-style-type: none"> - IT Security verification and validation reports - Web access via My Control System and SolutionsBank - Access to expert product support (L3/L4 support) 			
Maintenance Deliverables		<ul style="list-style-type: none"> - Software maintenance updates & corrections - System status and performance Benchmark tool - Scalable discount on selected service products - Scalable discount on selected expansion HW & SW 		
Enhancement Deliverables			<ul style="list-style-type: none"> - New software versions & enhancements 	
Evolution Deliverables				<ul style="list-style-type: none"> - Evolution from ABB Heritage OCS and 3rd party control systems to the latest ABB control platform

800xA 6.0 System Identifier

Control System Lifecycle Management Program

Control System Lifecycle Management Program

Automation Sentinel is the ABB control system lifecycle management program. An introductory trial period to the Automation Sentinel program will be included, at no additional cost, with each new ABB control system software delivery. Please contact your designated Automation Sentinel responsible for any questions or please refer to the Automation Sentinel 3.0 product guide for detailed information on the program and on how to calculate and order Automation Sentinel subscriptions.

System Identifier

800xA System Identifier

System identifier, used as identifier for each individual 800xA system. The ID must be used when ordering hardware and software to a system. After ordering this item a system license in design phase can be downloaded from SOFA.

	Article no.	
800xA System Identifier	3BSE081075R1	

800xA 6.0 System

Remark

Remark

When System Software Expansion licenses are ordered, the Serial Number of the ABB Software License Certificate for the previously ordered System Software licenses must be stated on the order to the ABB Supplier.

Automation Sentinel Upgrade Orders

Automation Sentinel Upgrade

	Article no.	
Automation Sentinel Upgrade	3BSE047992R1	

Base System – 800xA Base System

The base system is used as the base for 800xA production system, mulitsystem integration subscriber system and as Read only system. Tags can be added to all these systems. Only one type of subscriber tags (ie. subscriber tags or read only subscriber tags) can be added to a subscriber system. A subscriber system can not be converted from read only to read and write and vice versa.

800xA Base System

Includes one Operator Workplace, one Engineering Workplace, AC800M Connectivity, Redundant Aspect Server, Plant Explorer, Logging of Operator Actions, Topology Status Viewer, Softpoint Server, Scheduler, Primary History Logs (logging of signals for operator trends for up to 3 months), 10 Asset Monitors and Diagnostics Collection. Fast log-over of users.

	Article no.	
800xA Base System	3BSE078781R1	

800xA Production License

Ordered to be able to download a production license to switch the system from Engineering Phase to Production Phase.

	Article no.	
800xA Production License	3BSE081642R1	

Base System – Tag Expansion

Tags

All process objects with faceplate for operator interactions counts as a tag.
(Total max 120,000. Can not be mixed with redundant tags)

	Article no.	
100 tags, non-redundant	3BSE078782R1	
1,000 tags, non-redundant	3BSE078782R2	
10,000 tags, non-redundant	3BSE078782R3	

A TSA is NEEDED for a system with more than 60,000 tags.

Redundant Tags

All process objects with an operator faceplate counts as a tag.
(Total max 120,000. Can not be mixed with non-redundant tags)
Enables tag access through redundant Connectivity Servers.

	Article no.	
100 tags, redundant	3BSE078783R1	
1,000 tags, redundant	3BSE078783R2	
10,000 tags, redundant	3BSE078783R3	

A TSA is NEEDED for a system with more than 60,000 tags.

Non-Redundant to Redundant Tag Conversion

All process objects with faceplate for operator interaction counts as a tag.
(Total max 120,000. Redundant and non-redundant tags can not be mixed)
Enables tag access through redundant Connectivity Servers.

	Article no.	
100 Non-redundant to Redundant Tag Expansion	3BSE079637R1	
1,000 Non-redundant to Redundant Tag Expansion	3BSE079637R2	
10,000 Non-redundant to Redundant Tag Expansion	3BSE079637R3	

A TSA is NEEDED for a system with more than 60,000 tags.

Base System – Subscriber System Tags

Subscriber System Tags

Tags in the subscriber system in a Multisystem Integration configuration. These tags are Object with a faceplate that collects data from a provider system. Subscriber tags are only required in the subscriber system.

Note that non-redundant Multisystem Subscriber Tags can not be mixed with Multisystem Subscriber Redundant Tags.

Note that Multisystem Subscriber Tags can not be mixed with Multisystem Read Only Subscriber Tags.

Multisystem Subscriber Tags

Tags in the subscriber system in a Multisystem Integration configuration.

	Article no.	
100 Multisystem Subscriber Tags	3BSE079526R1	
1,000 Multisystem Subscriber Tags	3BSE079526R2	
10,000 Multisystem Subscriber Tags	3BSE079526R3	

A TSA is NEEDED for a system with more than 60,000 tags.

Multisystem Subscriber Redundant Tags

Tags in the subscriber system in a Multisystem Integration configuration.

	Article no.	
100 Multisystem Subscriber Redundant Tags	3BSE079527R1	
1,000 Multisystem Subscriber Redundant Tags	3BSE079527R2	
10,000 Multisystem Subscriber Redundant Tags	3BSE079527R3	

A TSA is NEEDED for a system with more than 60,000 tags.

Non-Redundant to Redundant Multisystem Subscriber Tag Conversion

Tags in the subscriber system in a Multisystem Integration configuration.

	Article no.	
100 Multisystem Subscriber Non-Redundant to Redundant Tags	3BSE079641R1	
1,000 Multisystem Subscriber Non-Redundant to Redundant Tags	3BSE079641R2	
10,000 Multisystem Subscriber Non-Redundant to Redundant Tags	3BSE079641R3	

A TSA is NEEDED for a system with more than 60,000 tags.

Base System – 800xA Applications

Multisystem Read Only Subscriber Tags

Tags in a Read Only Subscriber system in a Multisystem Integration configuration. Read only subscriber systems provides aspect object enabled clients read only clients to office users. Subscriber tags are only required in the subscriber system. Subscriber tag is required for every provider tag that needs to be accessed from graphics, alarms, trends etc, in the subscriber system.

Note that Multisystem Read Only Subscriber Tags can not be mixed with Multisystem Subscriber Tags.

	Article no.	
100 Multisystem Read Only Subscriber Tags	3BSE079104R1	
1,000 Multisystem Read Only Subscriber Tags	3BSE079104R2	
10,000 Multisystem Read Only Subscriber Tags	3BSE079104R3	
NOTE: At pricebook release a TSA was NEEDED for a system with more than 60,000 tags. Please, check current need of a TSA in the TSA Database before ordering		
Office Workplace – Read Only Client	3BSE078864R1	
Includes one local or remote read-only operator workplace, Excel based reporting aspects, MS Excel is NOT included, use of up to 2 screens is included. (One is included with Core system so this limit to Total-1) (Only in systems with read-only MI tags)		

Base System – Connectivity

Connectivity

Note that there may be 800xA price list options that are not supported with a particular OCS controller. Please refer to the table “Available functions per Controller Connectivity” in the System Guide “Technical Data and Configuration Information”. To check what connectivity combinations that are valid, use the Project Wizard or refer to the System 800xA System Guide for information.

	Article no.	
PLC Connect	3BSE078822R1	
Faceplates, graphical elements and means to communicate with the system. (one per system)		
PLC Connect Dial-Up	3BSE078823R1	
Scaled on number of dial up lines in a system.		
KNX Connect	3BSE078865R1	
Data access to KNX devices connected via ABB KNX IP router. The 800xA server node communicates over TCP/IP with the router.		
800xA for Advant Master	3BSE078816R1	
Faceplates, graphical elements and means to communicate with the system (One per system.) RTA hardware needs to be ordered separately. Please refer to pricebook 3BSE001706, Advant OCS with Master Software, for RTA hardware.		

Connectivity

Note that there may be 800xA price list options that are not supported with a particular OCS controller. Please refer to the table “Available functions per Controller Connectivity” in the System Guide “Technical Data and Configuration Information”. To check what connectivity combinations that are valid, use the Project Wizard or refer to the System 800xA System Guide for information.

	Article no.	
Advant Master Central Backup Backup and restore of applications for Advant Master controllers(AC410, AC450, MP200/1, SG400) One license per system. Requires 800xA for Advant Master.	3BSE078817R1	
800xA for Harmony Faceplates, graphical elements and means to communicate with the system.	3BSE078819R1	
800xA for AC 870P / Melody Graphical elements and means to communicate with the system (Faceplates not included) (One per system.)	3BSE078821R1	
800xA for MOD 300 Faceplates, graphical elements and means to communicate with the system. RTA hardware needs to be ordered separately. Please refer to pricebook 3BSE001709, Advant OCS with MOD 300 SW, for RTA hardware.	3BSE078818R1	
800xA for DCI Faceplates, graphical elements and means to communicate with the Harmony Distributed Control Unit (HDCU), includes: Batch connectivity, VB6 and PG2 faceplates, HDCU maintenance functions.	3BSE078820R1	
800xA for Safeguard Faceplates, graphical elements and means to communicate with the system. Note: Requires also 800xA for Advant Master.	3BSE078824R1	
800xA for AC 100 Faceplates, graphical elements and means to communicate with the AC 100 Controller, OPC server included.	3BSE078825R1	

Base System – System Extensions

System Extensions

	Article no.	
<p>Multicore support</p> <p>Enables the possibility to run 800xA on servers with more than 4 cores. Scaled on max number of cores in any server scaled in steps of 4 cores. (4 cores are included in the base system)</p>	3BSE078862R1	
<p>Point of Control</p> <p>Collaboration based transfer of plant operation responsibility between locations and users.</p>	3BSE078830R1	
<p>800xA OPC Client Connection</p> <p>This enables third party OPC clients to connect to 800xA via the 800xA OPC server, includes OPC DA, AE & HDA. One per external access.</p>	3BSE078826R1	
<p>OLE-DB Real Time Data Client Connection</p> <p>Allows realtime system data to be accessed via an OLE-DB interface. One per external access.</p>	3BSE078827R1	
<p>SMS and e-mail Messaging</p> <p>Sending messages based on alarm and event information to user devices such as mobile telephones, e-mail accounts and pagers.</p>	3BSE078828R1	
<p>Calculation Engine</p> <p>Provides the ability to run mathematical calculations on any available System 800xA aspect property or attribute. One license per server or redundant server pair.</p>	3BSE078829R1	
<p>Snapshot Reports</p> <p>Makes it possible to create aspects that automatically executes a query and produces a report consisting of properties of objects in the system.</p>	3BSE078832R1	
<p>CAD Viewer license</p> <p>View CAD drawings in DXF and DWG formats stored in aspects. DWG (version 13, 14, 2000, 2004, 2007, 2010) DXF (version 12, 13, 14, 2000, 2004, 2007, 2010)</p>	3BSE079674R1	

Base System – Cyber Security

Cyber Security

	Article no.	
Digital Signature Makes it possible to digitally sign aspects to ensure that data is kept unchanged after approval.	3BSE078833R1	
Advanced Access Control Reauthentication, double reauthentication and inactivity logout.	3BSE078834R1	
Audit Trail Logging of all user initiated actions in a system. e.g. Graphics editing, Control Logic editing, Batch recipe editing and start/stop of servers etc.	3BSE078835R1	
800xA for Industrial Defender Industrial Defender monitoring is updated with 800xA security events (one per system)	3BSE079528R1	
Whitelisting SE46 Whitelisting SE46 provides advanced threat protection, through checks of executing SW on clients and servers. The number of licenses should match the number of clients in a system. Protection of servers are included.	3BSE079529R1	
Whitelisting Studio SE46 Configuration tool required when using Whitelisting SE46 option. One tool needed per site using Whitelisting SE46.	3BSE079530R1	

Operations – Operator Workplaces

Operator Workplaces

	Article no.	
Operator Workplace – Additional Client Includes one local or remote operator workplace, Excel based reporting aspects, MS Excel is NOT included, use of up to 2 screens is included. (One is included with Core system so this limit to Total-1) The total quantity of Operator Workplaces, Large Operator Workplaces and Engineering Workplaces - must not exceed 80.	3BSE078749R1	
Large Operator Workplace Client Includes one local or remote Operator Workplace, with the possibility to use up to 4 screens and Large Desktop. The total quantity of Operator Workplaces, Large Operator Workplaces and Engineering Workplaces - must not exceed 80.	3BSE078750R1	
Convert Operator Workplace to large Operator Workplace	3BSE079107R1	

Operations – Extended Operator Workplaces

Extended Operator Workplaces

Additional options for the Extended Operator Workplaces must be selected in the sections 12.1 to 12.5 at the end of this price list.



EOW-x2 workplace

Operator Cockpit with adjustable ergonomic desk, 1 close large screen area and 2 sets of 2 wide screen motorized adjusted monitors each. Network switches and 3x quiet client PCs with 1 multifunctional keyboard and mouse for control. Built in sound, light and video camera for communication. Installation manuals, Partly assembled for easy commissioning.

Ships with EOW-x Base License, which includes 1 camera input, cad and video view on all three screen areas.

Options for desk color, keyboard layout and 110/230V are needed.

Article no.

3BSE079114R1



EOW-x3 workplace

Operator Cockpit with adjustable ergonomic desk, 1 close large screen area and 2 areas with 3 adjustable monitor each. Network switches and 3x quiet client PCs with 1 multifunctional keyboard and mouse for control. Built in sound, lighting and video camera for communication. Installation manuals, Partly assembled for easy commissioning.

Ships with EOW-x Base License, which includes 1 camera input, cad and video view on all three screen areas.

Operator Cockpit with adjustable ergonomic desk, 1 close large screen area and 2 sets of 3 wide screen motorized adjusted monitors. Network switches and 3x quiet client PCs with 1 multifunctional keyboard and mouse for control. Built in sound, lighting and video camera for communication. Installation manuals, Partly assembled for easy commissioning.

Ships with EOW-x Base License, which includes 1 camera input, cad and video view on all three screen areas.

Options for desk color, keyboard layout and 110/230V are needed.

3BSE079115R1



EOW-f2 workplace

Operator console including fixed ergonomic desk, 1 close large screen area and 2x2 personal screen setup. 1 programmable keyboard and mouse for control. Installation manuals.

Delivered disassembled. Ships with EOW-f base license.

Option needed for keyboard layout and 110/230 V.

3BSE079116R1



EOW-f3 workplace

Operator console including fixed ergonomic desk, 1 close large screen area and 2x3 personal screen setup. 1 programmable keyboard and mouse for control. Installation manuals.

Delivered disassembled. Ships with EOW-f base license.

Option needed for keyboard layout and 110/230 V.

3BSE079117R1

Operations – Extended Operations

Extended Operations

	Article no.	
<p>Control Room Review Prestudy</p> <p>Results in a customer unique future design of an existing or new control room. Based on general information, Plans and Photos, a questionnaire and phone interviews. Final result will be presented in a webmeeting.</p>	3BSE079590R1	
<p>Control Room Design Prestudy</p> <p>Results in a customer unique future design of an existing or new control room. Based on general information, Plans and Photos, a questionnaire and on site interviews with a work flow study. Final result will be presented in a webmeeting. The onsite work is included in the price.</p>	3BSE079591R1	
<p>Complete Control Room Prestudy</p> <p>Results in a customer unique future design of an existing or new control room. Based on general information, Plans and Photos, a questionnaire and on site interviews with a work flow study. Final result will be presented in a webmeeting. The onsite work is included in the price.</p>	3BSE079592R1	
<p>Video Input Channel</p> <p>Connection to attach a video stream from one video camera for recording or live viewing in the system.</p>	3BSE079118R1	
<p>Video Client</p> <p>One concurrent client using video stream viewing from either recorded or live video source. Each Client need a compatible video codec to uncompress the video stream. The codec is not included. The total quantity of Video clients must not exceed the total number of clients in a system.</p>	3BSE079119R1	
<p>Alarm awareness light control (per area)</p> <p>Situation awareness with colored light showing the alarm priority. Led light combined with soundabsorbers, covered surface approx 6 Sqm.</p>	3BSE078868R1	
<p>Alarm Operations, < 2000 Tags</p> <p>Alarm Grouping, Alarm Shelving and Basic Alarm Analysis. Alarm Help aspects. (Alarm Hiding and Alarm Response are parts of the base system)</p> <p>NOTE: At pricebook release a TSA was NEEDED for the Alarm Help item. Please, check current need of a TSA in the TSA Database before ordering.</p>	3BSE078751R1	
<p>Alarm Operations, < 5000 Tags</p> <p>Alarm Grouping, Alarm Shelving and Basic Alarm Analysis. Alarm Help aspects. (Alarm Hiding and Alarm Response are parts of the base system)</p> <p>NOTE: At pricebook release a TSA was NEEDED for the Alarm Help item. Please, check current need of a TSA in the TSA Database before ordering.</p>	3BSE078751R2	
<p>Alarm Operations, >= 5000 Tags</p> <p>Alarm Grouping, Alarm Shelving and Basic Alarm Analysis. Alarm Help aspects. (Alarm Hiding and Alarm Response are parts of the base system)</p> <p>NOTE: At pricebook release a TSA was NEEDED for the Alarm Help item. Please, check current need of a TSA in the TSA Database before ordering.</p>	3BSE078751R3	

Operations – Extended Operations

Extended Operations

	Article no.	
Alarm History and Reports, < 2000 Tags Long term Alarm storage and analyze, Alarm system KPI reports, web and e-mail distribution of reports. Note: At pricebook release this item required a TSA to be ordered. Please, check current need of a TSA in the TSA Database before ordering.	3BSE078869R1	
Alarm History and Reports, < 5000 Tags Long term Alarm storage and analyze, Alarm system KPI reports, web and e-mail distribution of reports. Note: At pricebook release this item required a TSA to be ordered. Please, check current need of a TSA in the TSA Database before ordering.	3BSE078869R2	
Alarm History and Reports, >= 5000 Tags Long term Alarm storage and analyze, Alarm system KPI reports, web and e-mail distribution of reports. Note: At pricebook release this item required a TSA to be ordered. Please, check current need of a TSA in the TSA Database before ordering.	3BSE078869R3	
Symbol Factory for Process Graphics Support for Symbol Factory graphics items in graphics displays.	3BSE080146R1	

Operations – Public Addressing

Extended Operations

	Article no.	
Public Addressing output channel One output channel with one language. The channel can convert alarms in alarmlists and predefined text messages to sound. The sound content can be configured differently for each output channel. A TSA is NEEDED to buy this item	3BSE078808R1	
Public Addressing additional language One additional language for all channels. A TSA is NEEDED to buy this item	3BSE078809R1	

800xA 6.0 System – Batch Management

Batch Management

	Article no.	
<p>Batch Base System</p> <p>Provides the basic server functionality for batch management. The batch server includes 10 Batch Equipment and 2000 Batch Procedures. 1 Batch client included.</p>	3BSE078752R1	
<p>10 Additional Batch Equipment</p> <p>The number of batch equipment instances includes each piece of equipment configured in Batch Management including both Units and Shared Equipment Modules.</p>	3BSE078756R1	
<p>100 Additional Batch Equipment</p> <p>The number of batch equipment instances includes each piece of equipment configured in Batch Management including both Units and Shared Equipment Modules.</p>	3BSE078757R1	
<p>Batch Management Full Client</p> <p>This Client feature provides access to Batch Management functions. The Client feature is based upon concurrent users, not physical workstation installation. Including SL and SQL server licenses. Requires Operator Workplace Client - item C010 or C030; or Engineering Workplace Client - item D510. Maximum 40 Clients. One Client is included with the Batch Base System.</p>	3BSE078754R1	
<p>Redundant Batch Server Option</p> <p>Provides redundancy for the basic server functionality for batch management. Requires Batch Base System, item D010.</p>	3BSE078753R1	
<p>Batch Advanced Phase Templates</p> <p>This feature provides access to the Batch Advanced templates control modules for phases, units and shared equipment modules. For use with AC 800M controllers. Batch Phase Control library option, includes 2000 Advanced Phases.</p>	3BSE078758R1	
<p>Batch Schedule Interface</p> <p>This feature is used to interface Batch Management to external applications such as schedulers and ERP systems. Webservice interface to batch scheduling and equipment status.</p>	3BSE078755R1	
<p>Simple Batch Parameter Management</p> <p>Batch spreadsheet recipe scheduling tool for desktop PC interface to Batch Management using Excel. (Not required when Batch Schedule Interface is ordered) Requires a minimum of System 800xA 5.1 Feature Pack 3.</p>	3BSE079105R1	

Engineering – Standard Engineering Tools

Standard Engineering Tools

	Article no.	
<p>Engineering Workplace – Additional Client</p> <p>Includes Control Configuration for AC 800M, Bulk Data Handling, Graphic Configuration, Document Manager, Parameter Manager, I/O allocation function and Script Manager Professional. (one client is included with the Base system)</p> <p>The total quantity of Operator Workplaces-Additional and Remote Clients, Large Operator Workplaces and Engineering Workplaces – must not exceed 80.</p>	3BSE078790R1	
<p>Engineering Workplace with Application Change Management – Client</p> <p>Includes one Engineering Workplace and in addition Application Change Management.</p> <p>The total quantity of Operator Workplaces-Additional and Remote Clients, Large Operator Workplaces and Engineering Workplaces - must not exceed 80.</p>	3BSE078810R1	
<p>Engineering Workplace with Load Evaluate Go - Client</p> <p>Includes one Engineering Workplace and in addition Load Evaluate Go. The total quantity of Operator Workplaces-Additional and Remote Clients, Large Operator Workplaces and Engineering Workplaces - must not exceed 80.</p> <p>A TSA is NEEDED for a system with more than 60,000 tags.</p>	3BSE079103R1	
<p>Advanced Engineering Workplace – Client</p> <p>Includes one Engineering Workplace and in addition Application Change Management and Load Evaluate Go. The total quantity of Operator Workplace-Additional and Remote Clients, Large Operator Workplaces and Engineering Workplaces - must not exceed 80.</p> <p>A TSA is NEEDED for a system with more than 60,000 tags.</p>	3BSE079106R1	
<p>SoftController</p> <p>To be used with the programming tool Control Builder M. This product is to be used as a test tool only. One license is required per SoftController.</p>	3BSE078794R1	

Engineering – Engineering Systems

Engineering Systems

	Article no.	
<p>Engineering System small</p> <p>Includes a copy of the licenses in a corresponding production system but the license can only run in engineering mode.</p> <p>Systems up to 2000 Tags.</p>	3BSE080147R1	
<p>Engineering System large</p> <p>Includes a copy of the licenses in a corresponding production system but the license can only run in engineering mode.</p> <p>Systems larger than 2000 Tags.</p>	3BSE079593R1	

Engineering – Professional Engineering Tools

Professional Engineering Tools

Aspect Studio and Aspect Express are not available in the price list. Please, contact your BU Area Sales Manager for quotation.

	Article no.	
Reuse Assistant Wizard help for selection of reusable solutions.	3BSE078791R1	
Process Engineering Tool Integration – Base for INtools Supports synchronization of properties between INtools objects and existing 800xA objects and property map definition changes. New 800xA object creation is NOT supported.	3BSE078792R1	
Process Engineering Tool Integration – New Object Creation Support for INtools Supports new 800xA object creation.	3BSE078793R1	

Information Management – Decathlon based SW licenses for 800xA

Smart Client Workplaces

Smart Client Workplaces - Includes access to system information from the office network. Includes: View Process Graphics 2 displays, Trend displays, Build/view business graphics, historic data, alarm & events analyze (H & AE analyze requires IM or 800xA History)

	Article no.	
Smart Client Workplace - Client 1-10	3BSE079531R10	
Smart Client Workplace - Client 11-50	3BSE079531R50	
Smart Client Workplace - Client 51-100	3BSE079531R100	

Information Management – 800xA History

800xA History Signals – Logs

History signals capable of storing actual and historic values retrieved from 800xA, Heritage ABB DCS systems and OPC sources. The signals include logging, trending, calculations, Alarm and Events, and archiving. Max 75,000 per Server node, signal storage for upto 6 data sources per Server.

	Article no.	
800xA History Signals – Basic 100 signals	3BSE079539R1	
800xA History Signals – Basic 1,000 signals	3BSE079539R10	
800xA History Signals – Basic 15,000 signals	3BSE079539R150	

800xA Dual History Signals – Logs

History signals for parallel logging in two history servers. The number of dual history signals should match the number of history signals that should be logged in two servers. Including Decathlon history service.

	Article no.	
800xA Dual History Signals – 100 signals	3BSE079540R1	
800xA Dual History Signals – 1,000 signals	3BSE079540R10	
800xA Dual History Signals – 15,000 signals	3BSE079540R150	

Data access to 800xA History Signals

OPC and ODBC access to data stored in history signals. Gives access to both the current and the historical values, and in addition Alarms and Events for the signals. (Same size as total number of 800xA History Signals)

	Article no.	
Data Access to 800xA History Signals – 100 signals	3BSE079541R1	
Data Access to 800xA History Signals – 1,000 signals	3BSE079541R10	
Data Access to 800xA History Signals – 15,000 signals	3BSE079541R150	

Information Manager – IM Historian

IM Historian

Logging of signals for Operator trends is included in the core system for up to three months. Logging for a longer time period, archiving to external media like DVD, discs or web based Historian tools require Historian server. Max 120,000 logs allowed in one server. (Includes archiving license, PDL, up to 12,000,000 events, MDI client and one Excel Data Access).

	Article no.	
IM Historian Server Logging of signals for Operator trends is included in the core system for up to three months. Logging for a longer time period, archiving to external media like DVD, discs or web based Historian tools require Historian server. 500 logs are included. Max 120 000 logs allowed in one server (Includes Archiving license, PDL, up to 12000000 events, MDI client and one Excel Data Access).	3BSE078842R1	

History Logs

	Article no.	
100 History Logs	3BSE078843R1	
1,000 History Logs	3BSE078843R2	
15,000 History Logs	3BSE078843R3	

Dual History Logs

For parallel logging in two history servers. (Two Basic Historian Servers are required). Number of initial Information Management Hierarchical Logs in the system. Each signal to be logged counts as one log. Note: Information Management provides only Hierarchical Logs. (Total max 150,000 and max 50,000/Server.)

	Article no.	
100 Dual History Logs	3BSE078844R1	
1,000 Dual History Logs	3BSE078844R2	
15,000 Dual History Logs	3BSE078844R3	

Consolidated History Logs

Consolidated logs collect data from multiple History Servers and store it in a single location. This provides a common history repository for viewing and reporting. (Total max 300,000 and max 50,000/Server.)

	Article no.	
100 Consolidated History Logs	3BSE078845R1	
1,000 Consolidated History Logs	3BSE078845R2	
15,000 Consolidated History Logs	3BSE078845R3	

Convert History Logs to Dual History Logs

(Total max 150,000, and max 50,000/Server) Use this option when converting an existing systems single History Logs to Dual History Logs.

	Article no.
100 Convert Single to Dual History Logs	3BSE079643R1
1,000 Convert Single to Dual History Logs	3BSE079643R2
15,000 Convert Single to Dual History Logs	3BSE079643R3

Historian Display and Reporting Options

	Article no.
Display Builder for MDI – Additional Client Provides the ability to create MDI information displays for desktop applications.	3BSE078846R1
Multi-Display Interface (MDI) – Additional Client Provides the ability to view MDI information displays on any PC Desktop (Max 64 per Server)	3BSE078847R1
Desktop Trends – Additional Client Provides trend viewing for desktop applications. Includes web enabled trend display for long and short term history and stock ticker like viewer. (Max 64 per Server)	3BSE078848R1

Historian Data Access Options

To access historical data through SQL from third party applications.

Batch Reports with trending requires the ODBC Server (E510) and ODBC Client (E520) option. This option provides the links necessary to connect the Oracle database (PDL) and the numeric log and process data.

Applications which utilize commercial third party reporting tools should also include the ODBC Server (E510) and ODBC Client (E520) option. The number of client connection is based on whether the applications utilizes the connection directly or indirectly.

If the connection is made indirectly (using Oracle), then the client connection requires is only one. If the client connections are direct, then the number of clients should equal the number of concurrent users.

	Article no.
Excel Data Access To access historical data through SQL from third party applications. Used to access historical data in Excel from non-800xA PC"s. For 800xA Client PC"s Excel Data Access is included. (Max 64 per Server)	3BSE078849R1
ODBC Historical Data Server ODBC, includes third party code. (One per server.)	3BSE078850R1
ODBC Client Connection ODBC Clients are purchased separately from the ODBC server. (Max 10 per ODBC Server.)	3BSE078851R1

800xA 6.0 System – Safety

Enabler for combined PA Control and Certified Safety software

	Article no.
AC 800M High Integrity and Process Control One fixed license feature per AC 800M controller running both non-SIL and SIL applications in the same controller.	3BSE078759R1

800xA 6.0 System – Asset Optimization

Asset Optimization

	Article no.
100 Asset Monitors Asset monitoring and Basic Asset Monitor Library. Each Aspect Object being monitored by one or more asset monitors counts as one.	3BSE078871R1
1000 Asset Monitors Asset monitoring and Basic Asset Monitor Library. Each Aspect Object being monitored by one or more asset monitors counts as one.	3BSE078871R2
800xA Maximo Integration Enables integration into Maximo for work order management. Application Engineering available through ConsultIT. Note: at pricebook release this item required a TSA to be ordered. Please, check current need of a TSA in the TSA Database before ordering.	3BSE078873R1
800xA SAP / Plant Maintenance Integration Enables integration into SAP for work order management. Application Engineering available through ConsultIT. Note: at pricebook release this item required a TSA to be ordered. Please, check current need of a TSA in the TSA Database before ordering.	3BSE078874R1

Asset Optimization – Asset Monitors

Asset Monitors

	Article no.	
Generic Heat Exchanger Asset Monitor It monitors the performance against standard operating parameters independent of type of heat exchanger.	3BSE078875R1	
Shell and Tube Heat Exchanger Asset Monitor It monitors the performance against standard operating parameters based on the size of shell and tube heat exchanger.	3BSE078876R1	
Advanced Harmony Control System Monitoring Enables Harmony Control Network monitors for diagnostic monitoring, reporting, and analysis	3BSE078877R1	
100 Control Loop Asset Monitors Each Control Loop Asset Monitor monitors and assesses the performance of a control loop in real-time and report significant problems related to the control loop and final control element. The total quantity of Control Loop Asset Monitors must not exceed 500.	3BSE078878R100	
300 Control Loop Asset Monitors Each Control Loop Asset Monitor monitors and assesses the performance of a control loop in real-time and report significant problems related to the control loop and final control element. The total quantity of Control Loop Asset Monitors must not exceed 500.	3BSE078878R300	
500 Control Loop Asset Monitors Each Control Loop Asset Monitor monitors and assesses the performance of a control loop in real-time and report significant problems related to the control loop and final control element. The total quantity of Control Loop Asset Monitors must not exceed 500.	3BSE078878R500	
PC, Network and Software Monitoring Enables availability monitoring of IT assets.	3BSE078879R1	

800xA 6.0 System – Device Management & Fieldbuses

Device Management HART

For HART devices to be accessed using Device Type Manager (DTM"s) within System 800xA. Includes HART Device Library with generic and specific HART Device Aspect Objects incl. DTM"s, I/O DTM for S800 and S900, HART Instruments Asset Monitor Library and OPC Server. Each HART device aspect object accessed with DTM counts as one. (Max 2500 per Connectivity Server if OPC Communication is used. For details refer to System Guide)

	Article no.	
100 HART Device Aspect Objects	3BSE078880R1	
1,000 HART Device Aspect Objects	3BSE078880R2	
10,000 HART Device Aspect Objects	3BSE078880R3	
HART Multiplexer Connect Enables HART Device Integration to connect to HART devices using HART Multiplexers.	3BSE078881R1	

800xA 6.0 System – Device Management & Fieldbuses

Device Management FOUNDATION Fieldbus

For FOUNDATION Fieldbus (FF) devices to be accessed using Fieldbus Builder FF within System 800xA. Includes FF Device Library with FF Device Aspect Objects, FF Instruments Asset Monitor Library and OPC Server. Each FF device aspect object counts as one. (Max 1000 per Connectivity Server. For details refer to System Guide.)

	Article no.	
100 FF Device Aspect Objects	3BSE078882R1	
1,000 FF Device Aspect Objects	3BSE078882R2	
10,000 FF Device Aspect Objects	3BSE078882R3	

Device Management PROFIBUS

For PROFIBUS DP/PA devices to be accessed using Device Type Manager (DTM"s) within System 800xA. Includes PROFIBUS Device Library with specific PROFIBUS Device Aspect Objects incl. DTM"s, I/O DTM for S800 and S900, and PROFIBUS Instruments Asset Monitor Library. Each PROFIBUS device aspect object accessed with DTM counts as one. (Max 2500 per Connectivity Server if OPC communication is used. For details refer to System Guide.)

	Article no.	
100 PROFIBUS Device Aspect Objects	3BSE078883R1	
1,000 PROFIBUS Device Aspect Objects	3BSE078883R2	
10,000 PROFIBUS Device Aspect Objects	3BSE078883R3	

IEC 61850-Ed1 Connect

For order of IEC 61850 related products, local organizations must comply with the Demands on the Purchaser to secure successful sales of IEC 61850 with System 800xA. Ref doc, 3BSE058798.

	Article no.	
IEC 61850-Ed1 Connect Allows operation clients to access data and alarm and event values from Intelligent Electronic Devices (IEDs) according IEC 61850-Ed1 (Edition1). Package includes IEC 61850 OPC server software with configuration tool on Connectivity Servers. You have to order number of used OPC server instances (max. 16 per System) IEC 61850 Substation Operation Library with Faceplates to control substation equipment (Bay, Breaker, Switch,...) is included.	3BSE078884R1	
Redundant IEC 61850-Ed1 Connect Option Allows operation clients to access data, and alarm and event values through redundant OPC-servers from Intelligent Electronic Devices (IEDs) through redundant Connectivity Servers according IEC 61850-Ed1 (Edition1). Package includes IEC 61850 OPC server software with configuration tool on Connectivity Servers. You have to order the number of used OPC server instances. (max. 16 per System) Requires IEC 61850-Ed1 Connect. IEC 61850 Substation Operation Library with Faceplates to control substation equipment (Bay, Breaker, Switch,...) is included.	3BSE078885R1	

800xA 6.0 System – Libraries

Libraries

	Article no.	
INF190 Function Code Library for AC 800M Requires separate media.	3BSE078890R1	
MOD 300 CCF Library for AC 800M Requires separate media.	3BSE078889R1	
TCP Communication Library License Control functions to create TCP based communication protocols in the AC800M controller. One licence is needed for each controller using the library.	3BSE079542R1	
UDP Communication Library License Control functions to create UDP based communication protocols in the AC800M controller. One licence is needed for each controller using the library.	3BSE079543R1	

800xA 6.0 System – Options for Extended Operator Workplace

Options for Regional Power Supply

Regional power supply

	Article no.	
110V System	3BSE073373R1	
220V System	3BSE073374R1	

Options for Advanced Operator Keyboard Layout

Advanced Operator Keyboard layout.

	Article no.	
US English Keyboard layout	3BSE073301R1	
Belgian Keyboard layout	3BSE073302R1	
Spanish Keyboard layout	3BSE073303R1	
French Keyboard layout	3BSE073304R1	
German Keyboard layout	3BSE073305R1	
Italian Keyboard layout	3BSE073306R1	
Swiss Keyboard layout	3BSE073307R1	
British English Keyboard layout	3BSE073308R1	
Danish Keyboard layout	3BSE073309R1	
Swedish Keyboard layout	3BSE073310R1	
Russian Keyboard layout	3BSE073311R1	
Norwegian Keyboard layout	3BSE073312R1	

800xA 6.0 System – Options for Extended Operator Workplace

Options for Packaging

Delivery option for EOW.

	Article no.	
Disassembled system Reduce packages dimension and decrease cost for air freight. We recommend an additional service to assist with the assembly on site when you chose this option.	3BSE073375R1	

Options for Desk Surface

Desk surface.

	Article no.	
Birch desk surface	3BSE073295R1	
Grey desk surface	3BSE073294R1	

800xA 6.0 System – Localization

National Language Support (NLS) is intended for the localization of the operator interface to the desired language. NLS contains a set of functions that are harmonized with the Windows regional settings to enable a multilingual environment for the System 800xA.

The System 800xA supports translations, mainly the operator interface and the operator manuals as shown in the Table 3 and Table 4. The translation, or System 800xA Language Package, is implemented as a system extension and is possible to install without stopping the system.

The NLS Localization Guide describes what and how localization can be performed by a project with or without an installed Language Package. The English version of the Windows operating system is required. The System 800xA Language Packages can be downloaded free of charge from ABB Library.

Table 3. Supported Language Packages for Functional Areas

Language Packages	Functional Areas						
	Base System	Safety	SMS & eMailing	*Asset Optimization	FOUNDATION FIELDBUS	Batch Management	** Information Management
English (default)	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Arabic	Yes	Yes					
Chinese	Yes	Yes		Yes	Yes	Yes	Yes
French	Yes	Yes	Yes				Yes
German	Yes	Yes	Yes	Yes		Yes	Yes
Russian	Yes	Yes					Yes
Spanish	Yes	Yes	Yes				Yes
Swedish	Yes	Yes	Yes			Yes	Yes

* Only system messages

** Storage of messages in local language

Table 4. Supported Language Packages for Connectivity

Language Packages	Connectivity			
	800xA for AC 800M	800xA for Advant Master	PLC Connect	800xA for Melody
English (default)	Yes	Yes	Yes	Yes
Arabic	Yes			
Chinese	Yes	Yes	Yes	
French	Yes	Yes		
German	Yes	Yes		Yes
Russian	Yes	Yes		
Spanish	Yes			
Swedish	Yes	Yes		

AC 800M Processor Units

CPU Modules

Several CPU modules are available that vary in terms of processing power, memory size, and redundancy support. Each CPU module is equipped with built in Ethernet port(s) for communication with other controllers and for interaction with operators, engineers, managers, and higher level applications. These ports can be configured for redundancy for those cases where availability is of paramount importance. It is also equipped with two RS-232C ports that can be used for point-to-point communication with programming/debugging tools and with third-party systems and devices.

The SIL3-rated and IEC61508-certified, AC 800HI controller supports running both process control and safety application, in the same machine.

The AC 800M controller can be configured with 800xA control builder. When configured with the 800xA control builder AC 800M becomes a tightly integrated part of the System 800xA.

Communication & I/O Modules

To each CPU module, a number of communication and I/O modules can be added, for example:

- Additional RS-232C ports
- PROFIBUS DP, PROFINET IO
- Foundation Fieldbus HSE/H1
- DeviceNet
- IEC 61850
- Ethernet IP
- MasterBus 300
- MODBUS TCP
- S100 I/O
- S800 I/O

PM891



AC 800M high integrity



AC 800M



AC 800M Controllers and users guide

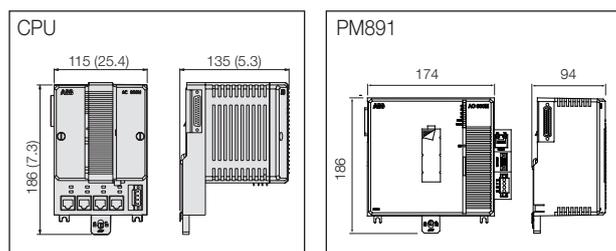
CPU's / Features	PM851A	PM856A	PM860A	PM861A	PM864A	PM865	PM866	PM891
Processor Unit	PM851AK01 incl: 1 PM851A CPU and re-quired optional items	PM856AK01 incl: 1 PM856A CPU and re-quired optional items	PM860AK01 incl: 1 PM860A CPU and re-quired optional items	PM861AK01 incl: 1 PM861A CPU and required optional items PM861AK02 incl: 2 PM861A CPUs and required optional items	PM864AK01 incl: 1 PM864A CPU and required optional items PM864AK02 incl: 2 PM864A CPUs and required optional items	PM865K01 incl: 1 PM865K01 CPU and required optional items PM865K02 incl: 2 PM865K02 CPUs and required optional items	PM866K01 incl: 1 PM866 CPU and required optional items PM866K02 incl: 2 PM866 CPUs and required optional items	PM891K01 incl: 1 PM891 CPU and required optional items PM891K02 incl: 2 PM891 CPUs and required optional items
High Integrity Controller	No	No	No	No	No	Yes	No	No
Clock frequency	48 MHz	48 MHz	48 MHz	48 MHz	96 MHz	96 MHz	133 MHz	450 MHz
Memory (RAM)	12 MB *	16 MB *	16 MB *	16 MB	32 MB	32 MB	64 MB	256 MB
RAM available for application	6.372 MB	10.456 MB	10.457 MB	7.320 MB	23.663 MB	24.242 MB 22.415 MB w SM810 22.386 MB w SM811	51.402 MB	199.233 MB
CPU redundancy support	No	No	No	Yes	Yes	Yes	Yes	Yes
Communication interfaces	1 Ethernet port 2 RS-232C ports	2 Ethernet ports 2 RS-232C ports	2 Ethernet ports 2 RS-232C ports	2 Ethernet ports 2 RS-232C ports	2 Ethernet ports 2 RS-232C ports	2 Ethernet ports 2 RS-232C ports	2 Ethernet ports 2 RS-232C ports	
Performance, 1000 boolean operations (a:=b and c)	0.46 ms	0.46 ms	0.23 ms	0.23 ms	0.15 ms	0.15 ms	0.09 ms	0.043 ms
Recommended Control Network backbone	100 Mbit/s - 1 Gbit/s Ethernet (IEEE 802.3)							
Dimensions	W 119 x H 186 x D 135 mm (4.7 x 7.3 x 5.3 in.)							
Weight (including base)	1100 g (2.4 lb)	1100 g (2.4 lb)	1100 g (2.4 lb)	1200 g (2.6 lb)	1200 g (2.6 lb)	1200 g (2.6 lb)	1200 g (2.6 lb)	1600 g (3.5 lb)

* Available with 5.1 FP4 Firmware (or newer) else its 8 / 12 / 12 MB

Environmental Data for AC 800M

Climatic Operating Conditions	0 to +55 C (Storage -40 to +70C), RH = 5 to 95 % no condensation, IEC/EN 61131-2
Protection class	IP20 according to EN 60529, IEC 529
Corrosive protection	G3 compliant according to ISA-71.04
Electromagnetic Compatibility and CE-mark	Meets EMC directive 2004/108/EC according to EN 61000-6-2 and EN 61000-6-4
Electromagnetic Emission	Tested according to EN 61000-6-4 EMC – Generic Emission Standard, Part 2 – Industrial Environment
Electromagnetic Immunity	Tested according to EN 61000-6-2 EMC – Generic Immunity Standard, Part 2 – Industrial Environment
Electrical Safety	UL508, IEC/EN 61131-2
Hazardous Classified Locations	UL60079-15 (Class 1 Zone 2)
Hazardous Classified Locations ATEX	S890 series of I/O modules: Category 3 (1) G, EEx nA [ia] IIC T4
Safety Integrity (IEC 61508)	PM865, AI880A, DI880, DO880: IEC 61508 up to SIL3

Measurements



AC 800M Hardware – Hardware Upgrade orders

Hardware Upgrade orders

For Hardware Upgrade orders please send your inquiry to Service Center mail box: offer.selog@se.abb.com

ISA-S71.04 level G3 Compliance

Modules are compliant to ISA-S71.04 level G3, unless explicitly stated differently.

Extended Warranty for AC 800M Hardware

We can offer an extended warranty for one, two, or three years in addition to normal warranty conditions for AC 800M Hardware. See price list Extended Warranty 3BSE049908.

AC 800M Hardware – System Units



System Units

The Tool Cable TK212A is most useful when working with AC 800M.

Please order a cable (Item P215) together with your first order of PM851AK01, PM856AK01, PM860AK01, PM861AK01, PM861AK02, PM864AK01, PM864AK02, PM865K01, PM865K02, PM866K01, PM866K02, PM891K01 or PM891K02.

AC 800M Hardware – AC 800M Processor Units

800M Processor Units



	Article no.	
PM851AK01 Processor Unit Package including: -PM851A, CPU -TP830, Baseplate, width=115 mm -TB850, CEX-bus terminator -TB807, ModuleBus terminator -Battery for memory backup (4943013-6)	3BSE066485R1	
PM856AK01 Processor Unit Package including: -PM856A, CPU -TP830, Baseplate, width=115 mm -TB850, CEX-bus terminator -TB807, ModuleBus terminator -Battery for memory backup (4943013-6)	3BSE066490R1	

AC 800M Hardware – AC 800M Processor Units

800M Processor Units



	Article no.
<p>PM860AK01 Processor Unit</p> <p>Package including:</p> <ul style="list-style-type: none"> -PM860A, CPU -TP830, Baseplate, width=115 mm -TB850, CEX-bus terminator -TB807, ModuleBus terminator -Battery for memory backup (4943013-6) 	3BSE066495R1
<p>PM861AK01 Processor Unit</p> <p>Package including:</p> <ul style="list-style-type: none"> -PM861A, CPU -TP830, Baseplate, width =115mm -TB850, CEX-bus terminator -TB807, ModuleBus terminator -TB852, RCU-Link terminator -Battery for memory backup (4943013-6) 	3BSE018157R1
<p>PM861AK02 Redundant Processor Unit</p> <p>Package including:</p> <ul style="list-style-type: none"> 2 pcs PM861AK01, Processor unit. 1 pcs TK850, CEX-bus expansion cable. 1 pcs TK851, RCU-Link cable. 	3BSE018160R1
<p>PM864AK01 Processor Unit</p> <p>Package including:</p> <ul style="list-style-type: none"> -PM864A, CPU -TP830, Baseplate, width =115mm -TB850, CEX-bus terminator -TB807, ModuleBus terminator -TB852, RCU-Link terminator -Battery for memory backup (4943013-6) 	3BSE018161R1
<p>PM864AK02 Redundant Processor Unit</p> <p>Package including:</p> <ul style="list-style-type: none"> 2 pcs PM864AK01, Processor unit. 1 pcs TK850, CEX-bus expansion cable. 1 pcs TK851, RCU-Link cable. 	3BSE018164R1
<p>PM866K01 Processor Unit</p> <p>Package including:</p> <ul style="list-style-type: none"> -PM866, CPU -TP830, Baseplate, width =115mm -TB850, CEX-bus terminator -TB807, ModuleBus terminator -TB852, RCU-Link terminator -Battery for memory backup (4943013-6) 	3BSE050198R1
<p>PM866K02 Redundant Processor Units</p> <p>Package including:</p> <ul style="list-style-type: none"> 2 pcs PM866K01, Processor unit. 1 pcs TK850, CEX-bus expansion cable. 1 pcs TK851, RCU-Link cable. 	3BSE050199R1

System Units – AC 800M Processor Units

800M Processor Units



	Article no.	
PM891K01 Processor Unit Package including: -PM891 CPU Module -TB850, CEX-bus terminator -TB853, RCU Control Link Terminator	3BSE053241R1	
PM891K02 Redundant Processor Unit Package including: 2 pcs PM891K01 Processor Unit 1 pcs TK850V007 CEX-bus Extension Cable 1 pcs TK855 RCU Data Link Cable 1 pcs TK856 RCU Control Link Cable Please note: The BC810K02 is not included in the PM891K02 Redundant Processor Unit kit. In order to make hot replacement of PM891 Processor Unit possible, the BC810K02 is required and has to be ordered separately.	3BSE053242R1	
SB822 Rechargeable battery unit External DIN-rail mounted rechargeable battery unit including lithium-ion battery, 24V DC connector and connection cable TK821V020. Width=85 mm. Equivalent amount of Lithium metal=0,8g (0,03oz)	3BSE018172R1	

System Units – AC 800M High Integrity Units

AC 800M High Integrity Units

The PM865 CPU Unit is intended for use in High Integrity systems.

Local organizations must comply with the Qualifications to secure successful sales of ABB safety systems, to order safety equipment. Ref doc, 3BSE047224



	Article no.	
PM865K01 Processor Unit Package including: -PM865, CPU -TP830, Baseplate, width =115mm -TB850, CEX-bus terminator -TB807, ModuleBus terminator -TB852, RCU-Link terminator -Battery for memory backup (4943013-6)	3BSE031151R1	
PM865K02 Redundant Processor Unit Package including: 2 pcs PM865K01, Processor unit. 1 pcs TK850, CEX-bus expansion cable. 1 pcs TK851, RCU-Link cable.	3BSE031150R1	
SM811K01 Safety CPU module kit Collaborating safety CPU. Connects to CEX bus after BC810 CEX bus interconnection box. Including: -SM811, Safety Module -TP868, Baseplate, width=60mm -TK852V10, Synchronization link cable	3BSE018173R1	
SS823 Voting Device Required in a High Integrity 800xA system. One per power supply unit, also at redundant configurations	3BSE038226R1	

System Units – Extra Batteries



Extra Batteries

For extra Lithium batteries (4943013-6), please refer to ABB Parts Online; www.abb.com/partsonline.

Communication – Control Network

Control Network

No articles, such as cables, hubs, switches etc, for Control Network are included in this price list. Please refer to Product Guide AC 800M, for recommended articles.

Recommended network components are available in 800xA Networks price list, 3BSE081392

Communication – Serial Interfaces on TP830

Serial Interfaces on TP830

RS232-C interfaces for protocols COMLI, MODBUS, Siemens 3964R, the free-programmable serial protocol etc. Also for connection of engineering tool.



TK212A Tool cable

RJ45 (male) to Dsub-9 (female), length 3 m. RJ45 8P8C plug (with shell). Cable : UL2464 26 AWG x 8C.

Article no.

3BSC630197R1



TC562 Short Distance Modem, G1 Compliant

Length < 10 km. Point-to-point up to 1 km at 19200 bps. Power 24V d.c. Width=55 mm

3BSC630049R1



TK853V020 Modem Cable

Length 2 m. Cable for connection between modem TC562 and TP830.

3BSC950201R1

Communication – Serial Communication Interface

Serial Communication Interface

RS232-C interfaces for protocols COMLI, MODBUS, Siemens 3964R, the free-programmable serial protocol etc.



CI853K01 Dual RS232-C interface

Package including:
-CI853, Communication Interface
-TP853, Baseplate, width = 60 mm

Article no.

3BSE018103R1

Communication – MODBUS TCP



MODBUS TCP

CI867K01 Modbus TCP Interface

Package including:

- CI867 , Communication Interface
- TP867 , Baseplate, width=60mm

Article no.

3BSE043660R1

Communication – PROFIBUS DP



PROFIBUS DP

The required PROFIBUS network components (Linking Devices, etc) must be ordered from price list 3BDD 013 232, PROFIBUS Network Components.

CI854BK01 Profibus Communication Interface

Package including:

- CI854B, Communication Interface
- TP854, Baseplate, width = 60 mm

Article no.

3BSE069449R1

Communication – PROFINET IO



PROFINET IO

CI871K01 PROFINET IO Communication Interface

Package including:

- CI871, Communication Interface
- TP867, Baseplate, width = 60 mm

Article no.

3BSE056767R1

Communication – FOUNDATION Fieldbus



FOUNDATION Fieldbus

The required FOUNDATION Fieldbus network components (Linking devices, etc) must be ordered from price list 3BDD 013 231, FOUNDATION Fieldbus Network Components.

CI860K01 FOUNDATION Fieldbus HSE Interface

Package including:

- CI860, Communication Interface
- TP860, Baseplate, width = 60 mm

Article no.

3BSE032444R1

Communication – IEC 61850

IEC 61850

For order of IEC 61850 related products, local organizations must comply with the Demands on the Purchaser to secure successful sales of IEC 61850 with System 800xA. Ref doc, 3BSE058798.



	Article no.
CI868K01 IEC61850-Ed1 (Edition 1) Communication Interface Package including: - CI868, Communication Interface - TP867, Baseplate, width=60mm	3BSE048845R1

Communication – Ethernet/IP

Ethernet/IP

For order of IEC 61850 related products, local organizations must comply with the Demands on the Purchaser to secure successful sales of IEC 61850 with System 800xA. Ref doc, 3BSE058798.



	Article no.
CI873K01 Ethernet/IP Communication Interface Packaging including: - CI873, Communication Interface - TP867, Baseplate width=60mm	3BSE056899R1
LD 800DN EtherNet/IP to DeviceNet Linking Device, G1 Compliant Package including: 1 pcs LD 800DN 1 pcs Installation Guide 2 pcs Termination resistors for DeviceNet, 1/4 W, 121 Ohm May only be used with CI873 Communication Interface.	3BSC690164R1



Communication – Advant Fieldbus 100

Advant Fieldbus 100



	Article no.
CI869K01 AF 100 Communication Interface Package including: - CI869, Communication Interface - TP869, Baseplate, width=60mm	3BSE049110R1

Communication – MasterBus 300



MasterBus 300

CI855K01 MB 300 Dual Ethernet port interface

Package including:

- CI855, MB300 Interface Module
- TP853, Base plate

Article no.

3BSE018106R1

Communication – S100 I/O Bus



S100 I/O Bus

CI856K01 S100 I/O Interface

Installed on DIN rail. Communication bridge between AC800M and S100 system. Package including:

- CI856, Communication Interface
- TP856, Baseplate, width = 60mm

Article no.

3BSE026055R1

Communication – TRIO



TRIO

CI862K01 TRIO Interface Kit, G1 Compliant

Package including:

- CI862, Communication Interface
- TP862, Baseplate, width = 60mm

Article no.

3BUA000037R1



CI862K02 Redundant TRIO Interface Kit with Connection Cable, G1 Compliant

Package including:

- 2xCI862, Communication Interface
- 2xTP862, Baseplate, width = 60mm
- TK862 Cable, 1m

Article no.

3BUA000111R1

Communication – Satt I/O



S100 I/O Bus

For SATT 19" rack I/O and S200 I/O via ControlNet. For additional Satt 19" rack I/O components, see price list 3BSE014353 (Interface) in price book 3BSE014360. (SattLine/SattCon).

	Article no.
CI865K01 Communication Interface Module for Satt I/O Package including: - CI865, Communication Interface - TP865, Baseplate, width = 60 mm	3BSE040795R1

Communication – INSUM



INSUM

	Article no.
CI857K01 INSUM Ethernet Interface Package including: - CI857, Communication Interface - TP853, Baseplate, width = 60 mm	3BSE018144R1

Communication – DriveBus



DriveBus

	Article no.
CI858K01 DriveBus Interface Package including: - CI858, Communication Interface - TP858, Baseplate, width = 60 mm	3BSE018135R1

Communication – MOD5



MOD5

	Article no.
CI872K01 MOD5 Communication interface Installed on DIN rail. Communication interface between AC800M and MOD5 system. Package including: - CI872, Communication module - TP858, Baseplate, width=60mm	3BSE051129R1

Communication – Bus Accessories

Bus Accessories



TK850V007 CEX-Bus Extension Cable

Length = 0.7 m

Use of TK850V007 needs TK851 as CEX-bus terminator.

Article no.

3BSC950192R1



TB850 CEX-Bus Terminator

With 25-pin DB25P male connector. With screw fixing.

A TB850 CEX-Bus terminator must always be installed on the last unit on the CEX bus.

3BSC950193R1



TB851 CEX-Bus Terminator

With 25-pin DB25S female connector. With screw fixing.

3BSC950194R1



BC810K02 CEX-bus Interconnection Unit

Including:

- BC810, Interconnection Unit, 2 units
- TP857, Baseplate, width = 60 mm, 2 units
- TK851, Interconnection Cable
- TB850, CEX-Bus Terminator, 2 units

3BSE031155R1

BC820K02 RCU-Link and CEX-Bus Interconnection Units

Including:

- BC820, RCU-Link and CEX-Bus Interconnection Unit, 2 units
- TP850, Baseplate, width = 60 mm, 2 units
- TK857 RCU-Link Cable for BC820, 2 units
- TB850, CEX-Bus Terminator, 2 units

PM866 PR: H or later is required.

3BSE071500R1



TK851V010 Connection Cable

Length = 1.0 m. Used as:

- RCU Link Cable
- BC810 Interconnection Cable

3BSC950262R1



TB852 RCU Link Terminator

3BSC950263R1

TB853 RCU Control Link Terminator

3BSE057022R1

TK855 RCU Data Link Cable

3BSC950356R1

Length = 1.0 m. Used as:

- RCU Data Link Cable

TK856 RCU Control Link Cable

3BSE057021R1

Length = 1.0 m. Used as:

- RCU Control Link Cable

TK857V003 RCU Link Cable

3BSC950375R1

AC 800M Processor Units – AC 800M Power supply

AC 800M Power supply



	Article no.
SD822Z Power Supply Device Input 115/230V a.c. switch selectable, output 24V d.c., 5A. If redundant power application is required connect to SS822Z Voting Unit.. Width=65 mm. DIN rail mounted.	3BSC610054R1
SD831 Power Supply Device, G2 Compliant Input a.c. 100-240 V or d.c. 110-300 V. Output d.c. 24 V 3A. If redundant power application is required connect to SS8XX. Voting unit. Width=35mm. DIN rail mounted.	3BSC610064R1
SD832 Power Supply Device, G2 Compliant Input a.c. 100-120/200-240 V. Output d.c. 24 V 5A, auto-select input. If redundant power application is required connect to SD8XX. Voting unit. Width=35mm. DIN rail mounted.	3BSC610065R1
SSD833 Power Supply Device, G2 Compliant Input a.c. 100-120/200-240 V, auto-select input. Output d.c. 24 V 10A. If redundant power application is required connect to SD8XX. Voting unit. Width=60mm. DIN rail mounted.	3BSC610066R1
SD834 Power Supply Device, G2 Compliant Input a.c. 100-240 V or d.c. 110-300 V. Output d.c. 24 V 20A. If redundant power application is required connect to SS8XX. Voting unit. Width=85mm. DIN rail mounted.	3BSC610067R1
SS822Z Power Voting Unit With dual 24V d.c 20A inputs, single 24V d.c. 20A output. Each power input supervised. Used if redundant power supply is required. For use with power supply SD822Z. Width=50 mm. DIN rail mounted.	3BSC610055R1
SS832 Voting Device, G2 Compliant Input d.c. 24 V. Dual 24 V to single 24 V, 2x10A. Width=35mm. DIN rail mounted.	3BSC610068R1
Mains Breaker Kit for DIN Rail 115/230V a.c. with input terminals, breaker and 3 fused (6.3A), double output terminals. Width=102,5 mm.	3BSE022262R1

AC 800M Processor Units – AC 800M Mounting Rails

AC 800M Mounting Rails



	Article no.
Al-profile with DIN rail and Cable Duct for RE820, mounting 719mm (28,3") DIN rail length 683mm (26,9")	3BSE022257R1
Al-profile with DIN Rail and Cable Duct for RM550, mounting 592mm (24") DIN rail length 556mm (21,9")	3BSE022256R1
Al-profile with DIN Rail and Cable Duct, mounting 465mm (19") DIN rail length 429mm (16,9")	3BSE022255R1

S800 I/O Modules

S800 I/O is a comprehensive and modular process I/O system that communicates with parent controllers either direct connected using the Modulebus or over industry-standard field buses. Thanks to its broad connectivity it fits a wide range of process controllers from ABB and others.

By permitting installation in the field, close to sensors and actuators, S800 I/O reduces the installation cost by reducing the cost of cabling. And thanks to features such as hot swap of modules, on-line reconfiguration and redundancy options, it contributes to keeping production – and thereby profits up.

S800 I/O features include:

- Comprehensive coverage
- Flexible configuration and installation
- Ease of set up
- Reliability and accuracy
- HART pass-through
- Redundancy also on I/O module level
- High Integrity I/O modules certified to SIL3
- High accuracy time tagging
- Defined outputs at communication errors
- I/O modules with Intrinsic Safety interfaces

With its cost-effective design and just 59 mm depth installation, S800L I/O modules are the perfect choice for PLC applications. Robust mechanics, one-piece handling, easy mounting and smart connections save your time in all phases of installation. The comprehensive S800 I/O system consists of more than 40 different module types to respond to every need. Classification of corrosive protection, electrical safety, hazardous location and marine certification brings the possibility to install S800 I/O in a wide variety of applications. S800 I/O is installed with more than 30 million channels worldwide.

S800



S800



S800L



S800 I/O Modules

Digital input modules	
DI810	16 channels, 2 groups of 8 channels, 24 V d.c., current sink.
DI811	16 channels, 2 groups of 8 channels, 48 V d.c., current sink.
DI814	16 channels, 2 groups of 8 channels, 24 V d.c., current source.
DI818	32 Channels, 2 groups of 16 channels, 24 V d.c., current sink.
DI820	8 channels, separate returns, 110 V d.c., 120 V a.c.
DI821	8 channels, separate returns, 220 V d.c., 230 V a.c.
DI825	With time tagging, 8 channels, separate returns, 125 V d.c.
DI828	16 Channels, separate returns, 110 V d.c, 120 V a.c. / d.c
DI830	With time tagging. 16 channels, 2 groups of 8 channels, 24 V d.c., current sink. Resolution: < 0.5 ms.
DI831	With time tagging. 16 channels, 2 groups of 8 channels, 48 V d.c., current sink. Resolution: < 0.5 ms.
DI885	With time tagging & wire-fault detection. 8 channels, common return, 24-48 V d.c., current sink. Resolution: 1 ms.
Pulse input module	
DP820	2 channels, separate returns, 0.25 Hz - 1.5 MHz, signal voltage: 5 / 12 V d.c.
DP840	8 channels, extended diagnostics, wire-fault detection, current limited sensor supply, 0.5-20 kHz, 12/24 V d.c or NAMUR, common return.
Digital output modules	
DO810	16 channels, 2 groups of 8 channels, 24 V, max 0.5 A d.c., transistor, current source, short-circuit-proof.
DO814	16 channels, 2 groups of 8 channels, 24 V d.c., max 0.5 A, transistor, current sink, short-circuit-proof.
DO815	8 channels, 2 groups of 4 channels, 24 V d.c., max 2 A, transistor, current source, short-circuit-proof, wire-fault detection.
DO818	32 Channels, 2 groups of 16 channels, 24 V, max 0.5 A d.c., transistor, current source, short-circuit-proof.
DO820	8 channels, separate returns, 5-250 V, max 3 A a.c./d.c., relay (N.O.).
DO821	8 channels, separate returns, 5-250 V, max 3 A a.c./d.c., relay (N.C.).
DO828	16 Channels, separate returns, 5-250 V a.c / 5-125 V d.c, max 2 A a.c./d.c., relay (N.O.).
Analog input modules	
AI810	8 channels, single-ended, 0(4)-20 mA, 0(2)-10 V, 12 bits.
AI815	8 channels with HART. 0(4)..20 mA, 0(1)..5 V, 12 bit, single ended, current limited transmitter supply.
AI820	Differential inputs, 4 channels, 0(1)-5 V, ±0(2)-10 V, ±0(4)-20 mA, 14 bits + sign.
AI825	Individually galvanically isolated channels, 4 channels, ±0(2)-10 V, ±0(4)- 20 mA, 14 bits + sign.
AI830A	RTD inputs, 8 channels, Pt100, Ni100, Ni120, Cu10, resistor 0-400 ohms, 14 bits, 3-wire.
AI835A	TC inputs, 8 channels, (7+ ref. junction), separate returns. TC types B, C, D, E, J, K, L, N, R, S, T, U, - 30...75 mV, 15 bits.
Analog output modules	
AO810V2	8 channels, common return, 0(4)-20 mA, 14 bits, load: 850 ohms (short-circuit-proof).
AO815	8 channels with HART. 4..20 mA, 12 bit, load: 750 ohms, common return, short-circuit-proof.
AO820	4 channels, individually galvanically isolated, separate returns, measuring range: ±0(2)-10 V, ±0(4)-20 mA, resolution: 12 bits + sign, load: 500 ohms (current) / 5 kohms (voltage), short-circuit-proof.
Intrinsic-safety modules	
DI890	8 channels, separate returns, proximity sensors (NAMUR) or voltage-free contact., current sink, wire-fault detection.
DO890	4 channels, separate returns, load 150-5000 ohms, 11 V @ 40 mA, current source, wire-fault detection, short circuit-proof.
AI890	8 channels, single-ended, 0(4)-20 mA, 12 bits, transmitter power supply.
AI893	8 channels, TC: 7 + ref. junction, sep. returns. TC types B, C, E, J, K, L, N, R, S, T, U, -10...80 mV. RTD: Pt50-1000, Ni100-500, Cu 10-100, resistor 0-4000 W, 3-wire. 15 bits + sign.
AI895	8 channels, single-ended, 4-20 mA, 12 bits, transmitter power supply, HART pass-through.
AO890	8 channels, common return, 0(4)-20 mA, 12 bits, load: 725 ohms short-circuit-proof.
AO895	8 channels, common return, 4-20 mA, 12 bits, load: 725 ohms short-circuit-proof, HART pass-through.
Redundant modules	
DI840	16 channels, common return, 24 V d.c., current sink, extended diagnostics, time-tagging, current limited sensor supply.
DP840	8 channels, common return, 0.5-20 kHz, 12/24 V d.c or NAMUR, extended diagnostics, wire-fault detection.
DO840	16 channels, common return, 24 V d.c., max. 0,5 A, transistor, current source, short-circuit-proof, extended diagnostics.
AI843	TC input, 8 channels + ref. junction. TC types: B, C, E, J, K, L, N, R, S, T, U, -30...75 mV, 16 bits, extended diagnostics.
AI845	8 channels, 12 bits, 0(4)-20 mA 0(1)-5 V, extended diagnostics, HART pass-through, current limited transmitter supply, single ended.
AO845	8 channels, 12 bits, common return, 4-20 mA, extended diagnostics, HART pass-through, 750 ohms.
High Integrity modules	
AI880A	4..20 mA, 8 channels, 12 bits, SIL3, current limited transmitter supply, also 0-20 mA, single ended, extended diagnostics, HART communication.
DI880	24 V d.c., 16 channels, 24 V d.c. inputs, SIL3, time-tagging, current limited sensor supply, common return, current sink, extended diagnostics.
DO880	24 V d.c., 16 channels, 0,5 A outputs, SIL3, wire-fault detection, 24 V, transistor, current source short-circuit-proof, common return, extended diagnostics.
SS823	Required in a High Integrity 800xA system. One per power supply unit, also at redundant configurations.

S800L I/O Modules

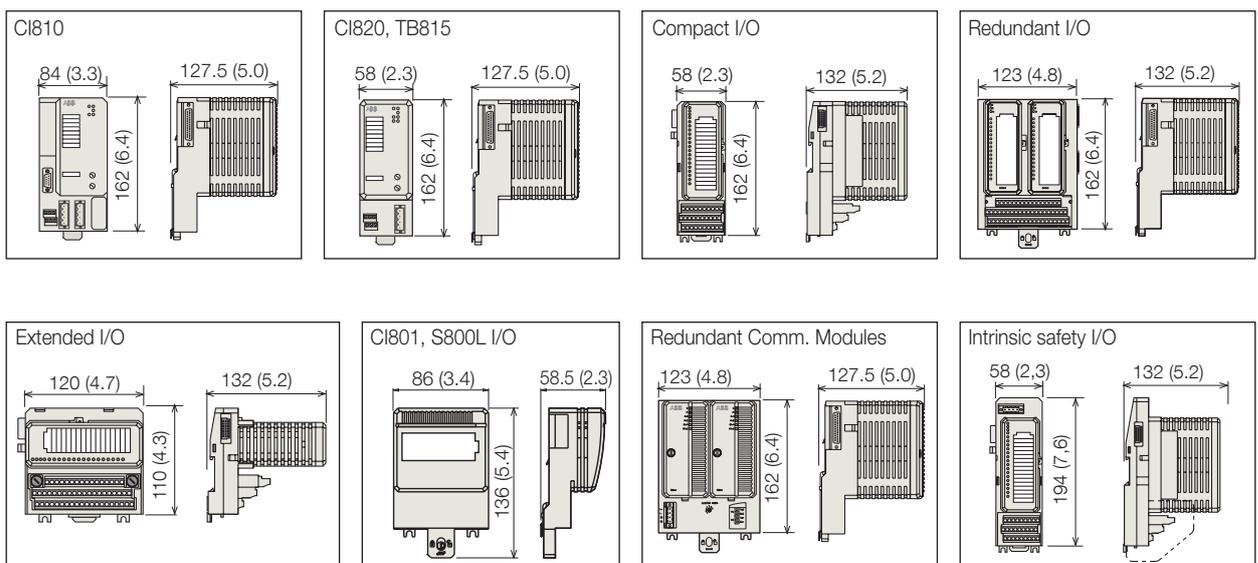
S800L modules

DI801	16 channels, 1 group, 24 V d.c., current sink.
DI802	8 channels, 110 V d.c., 150 V a.c.
DI803	8 channels, 220 V d.c., 230 V a.c.
DO801	16 channels, common return, 24 V, max 0.5 A d.c., transistor, current source, short-circuit-proof.
DO802	8 channels, 5-250 V, max 2 A a.c./d.c., relay (N.O.).
AI801	8 channels, single-ended, 0(4)-20 mA, 12 bits.
AO801	8 channels, common return, 0(4)-20 mA, 12 bits, load: less than 750 ohms.

Environmental Data for AC 800M and S800 I/O

Climatic Operating Conditions	0 to +55 C (Storage -40 to +70C), RH=5 to 95 % no condensation, IEC/EN 61131-2
Protection class	IP20 according to EN 60529, IEC 529
Corrosive protection	G3 compliant according to ISA-71.04
Electromagnetic Compatibility and CE-mark	Meets EMC directive 2004/108/EC according to EN 61000-6-2 and EN 61000-6-4
Electromagnetic Emission	Tested according to EN 61000-6-4 EMC – Generic Emission Standard, Part 2 – Industrial Environment
Electromagnetic Immunity	Tested according to EN 61000-6-2 EMC – Generic Immunity Standard, Part 2 – Industrial Environment
Electrical Safety	UL508, IEC/EN 61131-2
Hazardous Classified Locations	C1 Div 2 cULus, C1 Zone 2 cULus, ATEX Zone 2
Hazardous Classified Locations ATEX	S890 series of I/O modules: Category 3 (1) G, EEx nA [ia] IIC T4
Safety Integrity (IEC 61508)	PM865, AI880A, DI880, DO880: IEC 61508 up to SIL3

Measurements



Dimensions in mm (in.)

S800 I/O modules – Users guide

	NAMUR inputs	Binary 24 V	Binary 48 V	Binary 110 V	Binary 230 V	Binary Relay	Analog Unipolar	Analog Bipolar	Temperature RTD	Temperature T/C	SOE	HART	Intrinsic safety	Redundant	High integrity
I/O Features S800															
Digital input modules															
DI810		<input checked="" type="checkbox"/>													
DI811			<input checked="" type="checkbox"/>												
DI814		<input checked="" type="checkbox"/>													
DI818		<input checked="" type="checkbox"/>													
DI820				<input checked="" type="checkbox"/>											
DI821					<input checked="" type="checkbox"/>										
DI825				<input checked="" type="checkbox"/>							<input checked="" type="checkbox"/>				
DI828				<input checked="" type="checkbox"/>											
DI830		<input checked="" type="checkbox"/>									<input checked="" type="checkbox"/>				
DI831			<input checked="" type="checkbox"/>								<input checked="" type="checkbox"/>				
DI840		<input checked="" type="checkbox"/>									<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	
DI880		<input checked="" type="checkbox"/>									<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
DI885		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								<input checked="" type="checkbox"/>				
DI890	<input checked="" type="checkbox"/>												<input checked="" type="checkbox"/>		
Digital output modules															
DO810		<input checked="" type="checkbox"/>													
DO814		<input checked="" type="checkbox"/>													
DO815		<input checked="" type="checkbox"/>													
DO818		<input checked="" type="checkbox"/>													
DO820						<input checked="" type="checkbox"/>									
DO821						<input checked="" type="checkbox"/>									
DO828						<input checked="" type="checkbox"/>									
DO840		<input checked="" type="checkbox"/>												<input checked="" type="checkbox"/>	
DO880		<input checked="" type="checkbox"/>												<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
DO890													<input checked="" type="checkbox"/>		
Pulse input modules															
DP820		<input checked="" type="checkbox"/>													
DP840	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>												<input checked="" type="checkbox"/>	
Analog input modules															
AI810							<input checked="" type="checkbox"/>								
AI815							<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>			
AI820								<input checked="" type="checkbox"/>							
AI825								<input checked="" type="checkbox"/>							
AI830A									<input checked="" type="checkbox"/>						
AI835A										<input checked="" type="checkbox"/>					
AI843										<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	
AI845							<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
AI880A							<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
AI890							<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>		
AI893									<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		
AI895							<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Analog output modules															
AO810V2							<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>		
AO815							<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>		
AO820								<input checked="" type="checkbox"/>							
AO845							<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>		
AO890							<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>		
AO895							<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>		
S800L modules															
DI801		<input checked="" type="checkbox"/>													
DI802				<input checked="" type="checkbox"/>											
DI803					<input checked="" type="checkbox"/>										
DO801		<input checked="" type="checkbox"/>													
DO802						<input checked="" type="checkbox"/>									
AI801							<input checked="" type="checkbox"/>								
AO801							<input checked="" type="checkbox"/>								

S800 I/O – Extended warranty for S800 I/O Hardware

Extended warranty for S800 I/O Hardware

We can offer an extended warranty for one, two, or three years in addition to normal warranty conditions for S800 I/O Hardware. See price list Extended Warranty Time 3BSE049908.

S800 I/O – ISA-S71.04 level G3 Compliance

ISA-S71.04 level G3 Compliance

Modules are compliant to ISA-S71.04 level G3, unless explicitly stated differently.

Communication – Field Communication Interface

Field Communication Interface



	Article no.	
CI801 PROFIBUS DP-V1 Communication Interface Including: 1 pce Power Supply Connector 1 pce TB807 Modulebus Terminator	3BSE022366R1	
CI801 Engineering kit SW1.3 Including: 1 pce CD with GSD file, Memory Maps and Release Note. 1 pce Reference Manual Memory Maps for CI801.	3BSE038540R1300	
CI840A Profibus DP-V1 Communication Interface. For 1+1 redundant operation. New article, replace CI840.	3BSE041882R1	
CI840 Engineering kit SW 4.0 Including: 1 pce CD with GSD file, Memory Maps and Release Notes. 1 pce Reference Manual Memory Maps for CI840.	3BSE031694R4000	
TU846 Module Termination Unit, MTU, for 1+1 CI840. Support for redundant I/O. Vertical mounting of modules. Including: 1 pce Power Supply Connector 2 pcs TB807 Modulebus Terminator	3BSE022460R1	
TU847 Module Termination Unit for 1+1 CI840. Support for non-redundant I/O. Vertical mounting of modules. Including: 1 pce Power Supply Connector 1 pce TB807 Modulebus Terminator	3BSE022462R1	

Communication – Field Communication Interface

Field Communication Interface



	Article no.
Extra, Front label set FCI/AC 70/TB Sheet with 12 labels	3BSC970089R1
Extra, Label set, item design. FCI/AC70/TB Sheet with 40 labels	3BSC970091R1
Mounting kit For vertical mounting of CI801, CI840, and TB840 on a vertical DIN rail.	3BSE040749R1
Mounting profile 1800, 2 DIN rails and 1 cable duct DIN rail length: 1650 mm + 210mm (65") + (8.3")	3BSE049768R1
AI-profile with DIN Rail and Cable Duct, mounting 465 mm (19") DIN rail length 429 mm (16,9")	3BSE022255R1
AI-profile with DIN Rail and Cable Duct for RM550, mounting 592 mm (24") DIN rail length 556 mm (21,9")	3BSE022256R1

Communication – Upgrade Kit and Tool Cables

Upgrade Kit and Tool Cables

Upgrading of CI801, CI810, CI820, CI830, CI840 or CI840A to latest software version are available for download from ABB Library/Solutions Bank.

Item R160 is cable connecting a PC to CI810, CI820 and CI830 for download of software.

Item R165 is cable connecting a PC to CI840 or CI840A for download of software.

CI801 requires items A160 and A165 for download of software.



	Article no.
TK527V030 Interface cable, L = 3 m. DE9 pin to DE9 socket.	3BSC950004R1
TK212A Tool cable RJ45 (male) to Dsub-9 (female), length 3 m. RJ45 8P8C plug (with shell). Cable : UL2464 26 AWG x 8C.	3BSC630197R1
FS801K01 Service adapter kit Including: 1 pcs Service adapter FS801 1 pcs cable TK802	3BSE038407R1

S800 I/O – S800 I/O Modules

Analog Input Modules



	Article no.
AI810 Analog input 1x8 ch. 0(4)..20mA, 0..10V, 12Bit, single ended, 0.1%, Rated isol. 50V Use Module Termination Unit TU810, TU812, TU814, TU818, TU830, TU833, TU835, TU838, TU850.	3BSE008516R1
AI815 Analog Input 1x8 ch with HART 0(4)..20mA, 0(1)..5V, 12bit, single ended, 0.1%, Rated isol. 50V. Current limited transmitter power distribution. Use Module Termination Unit TU810, TU812, TU814, TU818, TU830, TU833, TU835, TU838.	3BSE052604R1
AI820 Analog input 4x1 ch. +-20mA, 0(4)..20mA, +-10V, +-5V, 0(1)..5V, diff., 50V CMV, 14bit+sign. Rin(curr)250 Ohms, Rated isol. 50V. Use Module Termination Unit TU810, TU812, TU814, TU830, TU833.	3BSE008544R1
AI825 Analog Input 4x1 ch Galv. isol. -20..20mA, 0(4)..20mA, -10..10V, 0(2)..10V, Galvanically isolated channels 14Bit+sign, 0.1%, Rated isol. 250V Use Module Termination Unit TU811, TU813, TU831.	3BSE036456R1
AI830A Analog input 1x8ch RTD Pt100, Ni100/120, Cu10, R, Rated isol. 50V. Use Module Termination Unit TU810, TU812, TU814, TU830, TU833.	3BSE040662R1
AI835A Analog input 8 ch. Thermocouple/mV Rated isol. 50V. Use Module Termination Unit TU810, TU812, TU814, TU818, TU830, TU833.	3BSE051306R1
AI843 Analog Input , Redundant or Single 1x8ch Thermocouple/mV Rated isol. 50V. Use Modules Termination Unit TU818, TU830, TU833, TU842, TU843, TU852.	3BSE028925R1
AI845 Analog Input. Redundant or single 1x8ch. HART. 0(4)..20mA, 0(1)..5V, 12bit, single ended, 0.1%, Rated isol. 50V. Current limited transmitter power distribution. Advanced on-board diagnostics. Use Module Termination Unit TU810, TU812, TU814, TU818, TU830, TU833, TU835, TU838, TU844, TU845, TU854.	3BSE023675R1
AI890 Analog Input 1x8 ch with Intrinsic Safety Interface 0 (4)..20mA single ended 0,1%. Rated isol. 50V Use Module Termination Unit TU890 or TU891.	3BSC690071R1
AI893 Analog Input 8 ch. Temp. measuring. Intrinsic Safety Interf. For TC and RTD sensors. Rated isol. 50V.	3BSC690141R1
AI895 Analog Input 1x8 ch with Intrinsic Safety and HART. 4..20mA single ended 0,1%. Rated isol. 50V. Use Module Termination Unit TU890 or TU891	3BSC690086R1

S800 I/O – S800 I/O Modules

Analog Output Modules



AO810V2 Analog Output 1*8 channels, 0(4)...20mA
 0(4)..20mA, 14bit RLmax 500/850 Ohms, Rated isolation 50V.
 Use module Termination Unit TU810, TU812, TU814, TU830 or TU833.

Article no.
 3BSE038415R1



AO815 Analog Output 1x8 ch with HART
 4..20mA, 12bit, 0.1%, RLmax 750 ohm, Rated isol. 50V.
 Use Module Termination Unit TU810, TU812, TU814, TU830 or TU833.

3BSE052605R1



AO820 Analog Output 4x1 ch,
 +-20mA, 0(4)...20mA, +-10V, 12bit+sign. Indiv. isol. ch. RL max 500 Ohms, Rated isol. 50V. Use Module Termination Unit TU810, TU812, TU814, TU830, TU833.

3BSE008546R1

AO845A Analog Output Redundant or single 1x8ch HART
 4..20mA, 12bit, 0.1%, RLmax 750 ohm, Rated isol. 50V.
 Advanced on-board diagnostics. Use Module Termination Unit TU810, TU812, TU814, TU830, TU833, TU842, TU843, TU852.

3BSE045584R1

AO890 Analog Output 1x8 ch with Intrinsic Safety Interface
 0 (4)...20mA 0,1%. RL max 750 ohm Rated isol. 50V
 Use Module Termination Unit TU890 or TU891.

3BSC690072R1

AO895 Analog Output 1x8 ch with Intrinsic Safety and HART.
 4...20mA 0,1%. RL max 750 ohm Rated isol. 50V.
 Use Module Termination Unit TU890 or TU891.

3BSC690087R1

S800 I/O – S800 I/O Modules

Digital Input Modules



	Article no.
DI810 Digital Input 24V d.c. 2x8 ch. Rated isolation 50V. Use Module Termination Unit TU810, TU812, TU814, TU818, TU830, TU833, TU838, TU850.	3BSE008508R1
DI811 2x8 ch 48V Digital input 48Vd.c. 2x8ch, Rated isol. 50V. Use Module Termination Unit TU810, TU812, TU814, TU818, TU830, TU833, TU838, TU850.	3BSE008552R1
DI814 Digital Input 24V d.c. Current Source 2x8 ch, Rated isol. 50V. Use Module Termination Unit TU810, TU812, TU814, TU830, TU833, TU838.	3BUR001454R1
DI818 Digital Input 24V d.c. 32 ch 2x16 ch, Rated isol. 50V, Use Module Termination Unit TU818, TU819, TU830.	3BSE069052R1
DI820 Digital Input 120V a.c./d.c. 8x1 ch, Rated isol. 250V. Use Module Termination Unit TU811, TU813, TU831, TU839, TU851.	3BSE008512R1
DI821 Digital Input 230V a.c./d.c. 8x1 ch, Rated isol. 250V. Use Module Termination Unit TU811, TU813, TU831, TU839, TU851.	3BSE008550R1
DI825 Digital Input 1x8ch, 125V d.c. SOE Individually Isolated channels, Rated isol. 250V. Use Module Termination Unit TU811, TU813, TU831, TU839, TU851.	3BSE036373R1
DI828 Digital Input, 120V a.c./d.c. 16 ch 16x1 ch, Rated isol. 250V, Use Module Termination Unit TU851.	3BSE069054R1
DI830 Digital Input 24V d.c. SOE 2x8 ch, Rated isol. 50V. Use Module Termination Unit TU810, TU812, TU814, TU818, TU830, TU833, TU838, TU850.	3BSE013210R1
DI831 Digital Input 48V d.c., SOE 2x8 ch, Rated isol. 50V. Use Module Termination Unit TU810, TU812, TU814, TU818, TU830, TU833, TU838, TU850.	3BSE013212R1
DI840 Digital Input. Redundant or single, 24V d.c., 1x16 ch. Advanced On-Board diagnostics. Rated isol. 50V. Use Module Termination Unit TU810, TU812, TU814, TU818, TU830, TU833, TU838, TU842, TU843, TU852.	3BSE020836R1
DI885 Digital Input 24/48V d.c., SOE 1x8 ch, Rated isol. 50V Use Module Termination Unit TU810, TU812, TU814, TU818, TU830, TU833.	3BSE013088R1
DI890 Digital Input 8x1 ch with Intrinsic Safety Interface Rated isol. 50V. Use Module Termination Unit TU890 or TU891.	3BSC690073R1

Digital Output Modules



	Article no.
DO810 Digital Output 24 V d.c. 2x8 ch 0.5A, Short circuit proof, Rated isol. 50V. Use Module Termination Unit TU810, TU812, TU814, TU830, TU833.	3BSE008510R1
DO814 Digital Output current sinking 2x8 ch 0,5A , shortcut circuit proof, Rated isol.50V Use Module Termination Unit TU810, TU812, TU814, TU830, TU833, TU838.	3BUR001455R1
DO815 Digital Output 24V d.c 2x4 ch, 2.0A short circuit proof. Rated isolation 50V. Use Module Termination Unit TU810, TU812, TU814, TU830, TU833.	3BSE013258R1
DO818 Digital Output 24V d.c. 32 ch 2x16 ch, 0.5A, Short circuit proof, Rated isol. 50V, Use Module Termination Unit TU818, TU819, TU830.	3BSE069053R1
DO820 Digital Output, Relay. Normal open 8x1 ch, 24-230V a.c./d.c. 3A, cos phi>0.4, d.c. 42W, Rated isol. 250V. Use Module Termination Unit TU811, TU813, TU831, TU836, TU837, TU851.	3BSE008514R1
DO821 Digital Output, Relay. Normal closed 8x1 ch, 24-230V a.c./d.c.. 3A, cos phi>0.4, d.c. 42W, Rated isol.250V. Use Module Termination Unit TU811, TU813, TU831, TU836, TU837, TU851.	3BSE013250R1
DO828 Digital Output, Relay Normally Open, 16 ch 16x1 ch, 5-250V a.c and 5-125V d.c, max 2A, Rated isol. 250V, Use Module Termination Unit TU851.	3BSE069055R1
DO840 Digital Output. Redundant or single. 24V d.c., 0.5A. 2x8 ch. Advanced On-board diagnostics. Rated isol. 50V. Use Module Termination Unit TU810, TU812, TU814, TU830, TU833, TU842, TU843, TU852.	3BSE020838R1
DO890 Digital Output 4x1 ch with Intrinsic Safety Interface Rated isol. 50V. Use Module Termination Unit TU890 or TU891.	3BSC690074R1

S800 I/O – Pulse Counting Modules

Pulse Counting Modules



	Article no.
DP820 Pulse Counter RS-422, Current, 5V, (12V), 24V 2 ch bidirectional pulse counters and frequency measurement. 1,5MHz Rated isol 50V. Use Module Termination Unit TU810, TU812, TU814, TU830, TU833.	3BSE013228R1
DP840 Pulse Counter or Frequency Measurement Module. Redundant or single. 1x8ch, 20kHz. Rated isol. 50V. Use Module Termination Unit TU810, TU812, TU814, TU818, TU830, TU833, TU842, TU843, TU844, TU845, TU852, TU854.	3BSE028926R1

S800 I/O – Label sets for I/O Modules

Label sets for I/O Modules



	Article no.
Transparent film fronts 1Set of 12 transparent plastic film fronts. To be used with ordinary paper quality.	3BSE072159R1
White colored plastic coated paper One sheet of size A4. Original paper quality. No need to use transparent films.	3BSE072160R1
Yellow colored plastic coated paper One sheet of size A4. Original paper quality. No need to use transparent films. To be used with DI880, DO880, AI880A.	3BSE072161R1

S800 I/O – High Integrity I/O Modules

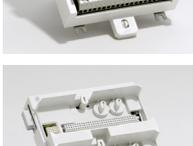
High Integrity I/O Modules

The modules can only be connected to AC800M controller PM865. Direct connection to the module-bus and via the optical modulebus via TB840 (not TB820).



	Article no.
AI880A High Integrity Analog Input. Single or Redundant. HART 4..20mA, 8 ch. Current input. HART communication. Certified for SIL3. Requires configuration according to Safety Manual. Use Module Termination Unit TU834, TU844, TU845, TU854.	3BSE039293R1
DI880 High Integrity Digital Input Single or Redundant 24V d.c., 16 ch. 24V d.c. inputs. Certified for SIL3. Requires configuration according to Safety Manual. Use Module Termination Unit TU810, TU812, TU814, TU818, TU830, TU833, TU838, TU842, TU843, TU852.	3BSE028586R1
DO880 High Integrity Digital Output. Single or Redundant. 24V d.c., 16 ch. 0,5A Outputs. Certified for SIL3. Requires configuration according to Safety Manual. Use Module Termination Unit TU810, TU812, TU814, TU830, TU833, TU842, TU843, TU852.	3BSE028602R1

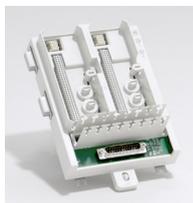
S800 I/O – Module Termination Units



Module Termination Units

	Article no.
TU805K01 Termination Units for two or three wire connection of DI801 and DO801 Include 10 pcs of Termination Unit TU805.	3BSE035990R1
TU810V1 Compact Module Termination Unit, MTU, 50V. 2x8 signal terminals, rated isol. 50V.	3BSE013230R1
TU811V1 Compact Module Termination Unit, MTU, 250V. 1x8 signal terminals, rated isol. 250V.	3BSE013231R1
TU812V1 Compact Module Termination Unit, MTU, 50V. With 25 pin D-sub connector, rated isol. 50V. D-sub (female) connector is not enclosed.	3BSE013232R1
TU813 Compact Module Termination Unit, MTU, 250V 2x8 Signal terminals, Rated isol. 250V Detachable (pluggable) connectors are enclosed.	3BSE036714R1
TU814V1 Compact Module Termination Unit, MTU, 50V. 2x8 Signal terminals, rated isol. 50V. Detachable (pluggable) connectors are enclosed.	3BSE013233R1
TU818 Compact Module Termination Unit, MTU, 50V 1x32 (and 2x16) signal terminals, Rated isol. 50V	3BSE069209R1
TU819 Compact Module Termination Unit, MTU, 50V. With 2x25 pin D-sub connector, Rated isol. 50V, D-sub (female) connector is not enclosed.	3BSE068891R1
TU830V1 Extended Module Termination Unit, MTU, 50V. 2x16 signal terminals, rated isol. 50V.	3BSE013234R1
TU831V1 Extended Module Termination Unit, MTU, 250V. 2x8 signal terminals, rated isol. 250V.	3BSE013235R1
TU833 Extended Module Termination Unit, MTU, 50V. 2x16 signal terminals, Rated isol. 50V. Spring-cage terminals.	3BSE038726R1
TU834 Extended Module Termination Unit, MTU 50V Used with AI880/AI880A. Rated isol. 50V. Shunt Stick not included.	3BSE040364R1
TU835V1 Extended Module Termination Unit, MTU, 50V. 8 fused power outlets, 8 signal terminals, rated isol. 50V.	3BSE013236R1
TU836V1 Extended Module Termination Unit, MTU, 250V. 2x4 fused signals, 2x4 return terminals, 2x2 L 2x2N terminals, rated isol. 250V.	3BSE013237R1
TU837V1 Extended Module Termination Unit, MTU, 250V. 8x1 fused isol. signals, 8x1 L terminals, 2x6 N terminals, rated isol. 250V.	3BSE013238R1
TU838 Extended Module Termination Unit, MTU, 50V. 2x4 fused transducer power outlets, 16 signal terminals, 2x4 return terminals, 2x2 L+, 2x2 L- terminals, rated isol. 50V. Module is mounted horizontally.	3BSE008572R1
TU839 Extended Module Termination Unit, 250V 2x8 signal terminals. 2x4 fused sensor power. Rated isol. 250V	3BSE046966R1
TU842 Module Termination Unit, MTU, for redundant applications, 50V. Used for AO845, DI840, DO840. Horizontal mounted DIN rail. Rated isol. 50V.	3BSE020850R1
TU843 Module Termination Unit, MTU, for redundant applications, 50V. Used for AO845, DI840, DO840. Vertical mounted DIN rail. Rated isol. 50V.	3BSE021443R1

S800 I/O and S800L I/O – Module Termination Units



Module Termination Units

	Article no.	
TU844 Module Termination Unit, MTU, for redundant applications, 50V. Used with AI845, AI880 and DP840. Horizontal mounted DIN rail. Rated isol. 50V. Shunt Stick not included.	3BSE021445R1	
TU845 Module Termination Unit, MTU, for redundant applications, 50V. Used with AI845, AI880A and DP840. Vertical mounted DIN rail. Rated isol. 50V. Shunt Stick not included.	3BSE021447R1	
TU850 Extended Module Termination Unit, MTU, 50V 2x8 signal terminals and 2x8 disconnectable current limited sensor/transmitter outlet power terminals. Rated isol. 50V.	3BSE050930R1	
TU851 Extended Module Termination Unit, MTU, 250V 2x16 signal terminals, Rated isol. 250V	3BSE068782R1	
TU852 Module Termination Unit, MTU, for redundant applications, 50V Horizontal mounted DIN rail, used with redundnat AO, DI, DO and DP I/O modules, with 2x25 pin D-sub connector, Rated isol. 50V	3BSE069964R1	
TU854 Module Termination Unit, MTU, for redundant applications, 50V Horizontal mounted DIN rail, used with redundnat AI and DP I/O modules, with 1x25 pin D-sub connector, Rated isol. 50V, Shunt Stick not included.	3BSE069966R1	
TU890 Module Termination Unit for Intrinsic Safety applications 3x9 signal terminals Rated isol. 50V. Including wiring separator.	3BSC690075R1	
TU891 Module Termination Unit for non Intrinsic Safety applications 3x9 signal terminals Rated isol. 50V.	3BSC840157R1	
TY801K01 8pcs Shunt Stick TY801 125 + 125 ohms shunt. Used for AI845 and AI880A on TU844, TU845, TU854.	3BSE023607R1	
TY804K01 8pcs Shunt Stick TY804 1000 ohms shunt. Used for DP840 on TU844, TU845, TU854	3BSE033670R1	
TY820K01 10pcs Temperature Sensor TY820 TY820 is a temperature sensor with a PT 100 element. Can be used with AI835/AI835A and AI843 to measure cold junction Temperature.	3BSE056980R1	

S800L I/O – S800L I/O Modules



Analog Input Modules

	Article no.
AI801 Analog input 1x8 ch, 0(4)..20mA, 12bit, single ended, 0.1%, Rated isol. 50V.	3BSE020512R1



Analog Output Modules

	Article no.
AO801 Analog output 1x8 ch, 0(4)..20mA, 12 bit, RLmax 850 Ohm, Rated isol. 50V.	3BSE020514R1



Digital Input Modules

	Article no.
DI801 Digital Input 24V d.c. 1x16 ch, Rated isol.50V	3BSE020508R1
DI802 Digital Input 120V a.c./d.c., 8x1ch. Rated isol. 250V.	3BSE022360R1
DI803 Digital Input 230V a.c./d.c., 8x1ch. Rated isol. 250V.	3BSE022362R1



Digital Output Modules

	Article no.
DO801 Digital Output 16ch. 24V d.c. 0.5A. Short circuit proof, Rated isol. 50V	3BSE020510R1
DO802 Digital Output, Relay. Normal open 8x1 ch, 24-230V, a.c./d.c. Rated isol. 250V	3BSE022364R1



S800L I/O – Label sets for S800L I/O Modules

Label sets for S800L I/O Modules



	Article no.
Label Set S800L, 16ch Sheet with 12 labels for 16 channels I/O modules.	3BSE019419R1
Label Set S800L, 8ch Sheet with 12 labels for 8 channels I/O modules	3BSE019419R2

S800 I/O and S800L I/O – ModuleBus Communication Parts

ModuleBus Communication Parts



	Article no.	
TB805 Bus Outlet Modulebus extension cable adaptor D-sub 25, female. One required per extension cable TK801.	3BSE008534R1	
TB845, Dual Modulebus outlet Modulebus extension cable adaptor two D-sub, female. Two TK801 cables for redundancy.	3BSE021437R1	
TB806 Bus Inlet Modulebus extension cable adaptor D-sub 25, male. One required per extension cable TK801.	3BSE008536R1	
TB846, Dual Modulebus inlet Modulebus extension cable adaptor two D-sub, male. Two TK801 cables for redundancy.	3BSE021439R1	
TK801V003 Cable. Modulebus Extension Shielded Cable 0.3m D-sub 25, male-female.	3BSC950089R1	
TK801V006 Cable. Modulebus Extension Shielded Cable 0.6m D-sub 25, male-female.	3BSC950089R2	
TK801V012 Cable. Modulebus Extension Shielded Cable 1.2m D-sub 25, male-female.	3BSC950089R3	
TB807 Modulebus terminator.	3BSE008538R1	
TB820V2 Modulebus Cluster Modem Optical cluster modem for non redundant operation. Including: 1 pce Power Supply Connector 1 pce TB807 Modulebus Terminator	3BSE013208R1	
TB825 Optical Media Converter Multi Mode Short to long distance optical fiber conversion. For modulebus communication up to 1000m.	3BSE036634R1	
TB826 Optical Media Converter Single Mode Short to long distance optical fiber conversion. For modulebus communication up to 5000m, for S800 I/O HI up to 20000m.	3BSE061637R1	
TB840A Modulebus Cluster Modem Optical cluster modem for 1+1 redundant operation.	3BSE037760R1	
TB842 Modulebus Optical Port Used together with CI801 and CI840, connected via TB806 or TB846. 10 Mbits driver.	3BSE022464R1	
TU807 Termination Unit for TB840/TB840A Support for single modulebus I/O. Including: 1 pcs TB807	3BSE039025R1	
TU840 Termination Unit for 1+1 TB840. Support for redundant I/O Including: 1 pce Power Supply Connector 2 pcs TB807 Modulebus Terminator	3BSE020846R1	
TU841 Termination unit for 1+1 TB840. Support for non-redundant I/O. Including: 1 pce Power Supply Connector 1 pce TB807 Modulebus Terminator	3BSE020848R1	

S800 I/O and S800L I/O – ModuleBus Communication Parts

ModuleBus Communication Parts



TU848, MTU with individual power supply for red. TB840/ TB840A. Support for dual modulebus.

Including:
2 pcs TB807

Article no.

3BSE042558R1



TU849, MTU with individual power supply for red. TB840/ TB840A. Support for single modulebus

Including:
1 pcs TB807

3BSE042560R1



TK811V015 POF Cable, 1.5m, Duplex

L=1.5m latching duplex connector Duplex plastic fibre

3BSC950107R1

TK811V050 POF Cable, 5m, Duplex

L=5m latching duplex connector Duplex plastic fibre.

3BSC950107R2

TK811V150 POF Cable, 15m, Duplex

L=15m latching duplex connector Duplex plastic fibre.

3BSC950107R3



TK812V015 POF Cable, 1.5m, Simplex

L=1.5m latching connector Simplex plastic fibre.

3BSC950118R1

TK812V050 POF Cable, 5m, Simplex

L=5.0m latching connector Simplex plastic fibre.

3BSC950089R1

TK812V150 POF Cable, 15m, Simplex

L=15m latching connector Simplex plastic fibre.

3BSC950118R3



Power Supply

	Article no.	
<p>SD822Z Power Supply Device Input 115/230V a.c. switch selectable, output 24V d.c., 5A. If redundant power application is required connect to SS822Z Voting Unit. Width=65 mm. DIN rail mounted.</p>	3BSC610054R1	
<p>SS822Z Power Voting Unit With dual 24V d.c 20A inputs, single 24V d.c. 20A output. Each power input supervised. Used if redundant power supply is required. For use with power supply SD822Z. Width=50 mm. DIN rail mounted.</p>	3BSC610055R1	
<p>SD831 Power Supply Device, G2 Compliant Input a.c. 100-240 V or d.c. 110-300 V. Output d.c. 24 V 3A. If redundant power application is required connect to SS8XX. Voting unit. Width=35mm. DIN rail mounted.</p>	3BSC610064R1	
<p>SD832 Power Supply Device, G2 Compliant Input a.c. 100-120/200-240 V. Output d.c. 24 V 5A, auto-select input. If redundant power application is required connect to SD8XX. Voting unit. Width=35mm. DIN rail mounted.</p>	3BSC610065R1	
<p>SD833 Power Supply Device, G2 Compliant Input a.c. 100-120/200-240 V, auto-select input. Output d.c. 24 V 10A. If redundant power application is required connect to SD8XX. Voting unit. Width=60mm. DIN rail mounted.</p>	3BSC610066R1	
<p>SD834 Power Supply Device, G2 Compliant Input a.c. 100-240 V or d.c. 110-300 V. Output d.c. 24 V 20A. If redundant power application is required connect to SS8XX. Voting unit. Width=85mm. DIN rail mounted.</p>	3BSC610067R1	
<p>SS832 Voting Device, G2 Compliant Input d.c. 24 V. Dual 24 V to single 24 V, 2x10A. Width=35mm. DIN rail mounted.</p>	3BSC610068R1	

S800 I/O – User Documentation

User Documentation

	Article no.	
S800 I/O Getting Started	3BSE020923-600	
S800 I/O Modules and Termination Units	3BSE020924-600	
S800 I/O Fieldbus Communication Interface for PROFIBUS DP/DPV1	3BSE020926-600	
S800 I/O Modules and Termination Units with Intrinsic Safety Interface	3BSE020927-600	

800xA – Process Industries Application Libraries

Process Industries Application Libraries

The Process Industries Application Libraries (PIAL) in this book include Process Control Device Library (PCDL), Process Control Equipment Library (PCEL) and ProBase Library.

One valid license is required per 800xA system. User documentation is provided electronically with the product media. The licenses support use with System 800xA. These licenses entitle license holders to use the library in one system, meaning one Aspect Server.

Please refer to System Guide Ordering and Licensing (3BSE041435) for more information.

800xA – PIAL Media

PIAL Media

	Article no.	
CD media with Process Industries Application Libraries for System 800xA	3BSE057164R1	

800xA – Process Control Device Library

Process Industries Application Libraries

The 800xA PC Device Library provides device-level objects. The PCDeviceLib is a customized library for the process industry. It builds upon the 800xA - AC800M library to provide additional functionality and engineering efficiency. Benefits include minimizing the initial learning curve for the Industrial IT Extended Automation System 800xA and to minimize the engineering effort. The PCDevice Library contains an extensive list of objects, but it is licensed only by the number of Control Elements used. Control Elements are the Valves, Motors and PID Loops in a system.

The following PCDevice library control modules are categorized as Control Elements - Valve, ValveMan, MotorOnOff, MotorOnOffAdv, Motor2Speed, MotorVarSpeed, ControllerPIDLoop, ControlValvePneumatic, ControlValveElectric, ChokeValve, MotorOnOffCore, Motor2SpeedCore and MotorVarSpeedCore

Process Control Device Library Licenses

	Article no.	
Base Process Control Device Library (including 125 Control Elements) The PCDevice Library comes with all PCDevice library objects but only the 13 objects listed above are counted as Control Elements. To arrive at the correct number of Control Elements to purchase, count the number of Valve, Motor and ControllerPID-Loop objects associated with the project.	3BSE081553R1	

Additional Control Device Library Licenses

	Article no.	
Additional 125 Control Elements	3BSE081554R1	

800xA – PCDL Application Engineering

PCDL Application Engineering

	Article no.	
PCDL License for Application Engineering This Engineering system License is intended to use for Application Engineering purpose only. A maximum of 2500 Control Elements will be issued as a part of the license. For production system, appropriate quantity of Control Elements license must be purchased separately. Media is ordered separately.	3BSE081555R1	

PCDL Application Engineering

	Article no.	
PCDL Additional License for Application Engineering Each additional license comes with 2500 control elements license.	3BSE081556R1	

800xA – Process Control Equipment Library

Process Control Equipment Library

Process Control Equipment Library (PCEquipmentLib) is a comprehensive library of Equipment Module templates, and toolkit components for industrial IT Extended Automation System 800xA.

PCEquipmentLib is designed to optimize the specification and building of ANSI/ISA-88.01-1995 style Equipment Modules and customized Process Units. Designed to “plug and produce” with standard PCDeviceLib control objects, PCEquipmentLib shares common terminology, engineering principles, and naming conventions to make engineering consistent and easy. It is a requirement to use a compatible version of PCDevice Library in conjunction with PCEquipment Library. Refer to PCEquipment Library release notes for appropriate version information.

The PCEquipment Library contains an extensive list of Pre-engineered and Validated objects like Unit template and Standard Phases, Equipment Modules, Quality Monitor, pcc Supervision, EqTimer, Prompts/PromptsAlarmOwner etc. The PCEquipment Library also contains Pre-engineered Facility Automation Solution objects.

Process Control Equipment Library Licenses

	Article no.
Base Process Control Equipment Library With Production Management This license is for working with up to 125 PCDevice Lib Control Elements. This license shall allow using any number of PCEL Batch Unit type with Standard Phases. All other modules for Equipment module implementation, quality monitoring, PCC configuration, and operator visualization are included with this license. This license also includes Pre-engineered Facility Automation Solutions like AHUs, Scheduler, ZoneMonitor, Facility, Start-Stop sequence, Operator visualization etc. With one base license, a maximum of 125 PCDeviceLib Control Elements can be used. An incremental purchase of PCDevice Lib Control Elements (License Expansion) requires an incremental purchase of PCEquipment Lib license (License Expansion). Note: License for PCDevice Lib Control Elements to be purchased separately.	3BSE081558R1

800xA – Process Control Equipment Library

Process Control Equipment Library Licenses

	Article no.	
Base Process Control Equipment Library Without Production Management This license is for working with up to 125 PCDevice Lib Control Elements. This license shall allow using any number of PCEL Equipment Module (EM) types with Device Summary and ModeControl. Other modules like Prompt, PromptAlarmOwner and EqTimer are included in the license. This license also includes Pre-engineered Facility Automation Solution objects like AHUs, Scheduler, ZoneMonitor, Facility Start-Stop sequence, Operator visualization etc. With one base license, a maximum of 125 PCDL Control Elements can be used. An incremental purchase of PCDevice Lib Control Elements (License Expansion) requires an incremental purchase of PCEquipment Lib license (License Expansion). Note: License for PCDevice Lib Control Elements to be purchased separately.	3BSE081559R1	

800xA – Additional Control Equipment Library Licenses

Additional Control Equipment Library Licenses

It is a requirement to use a compatible version of PCDevice Library in conjunction with PCEquipment Library. Refer to PCEquipment Library release notes for appropriate version information. Additional expansion licenses can be purchased. When ordering additional licenses, the original quantity and the license information must be included with the expansion order.

Additional Control Equipment Library Licenses

	Article no.	
Additional Process Control Equipment Library With Production Management Each Expansion license is for working with up to 125 PCDevice Lib Control Elements.	3BSE081560R1	
Additional Process Control Equipment Library Without Production Management Each Expansion license is for working with up to 125 PCDevice Lib Control Elements.	3BSE081561R1	

800xA – PCEL Application Engineering

PCEL Application Engineering

	Article no.
PCEL License for Application Engineering This Engineering system License is intended to use for Application Engineering purpose only. A maximum of 20 'PCEL With Production Management'. License quantity will be issued as a part of this license, which can be used with both Batch and Non-Batch version of PCEquipmentLib. For production system, appropriate quantity of PCEL With Production Management or WithOut Production Management license quantities must be purchased separately. Media is ordered separately.	3BSE081562R1

PCEL Application Engineering

	Article no.
PCEL Additional License for Application Engineering Each additional license comes with 20 PCEL WithBatch license.	3BSE081557R1

800xA – ProBase

ProBase

ProBase is a set of System 800xA libraries with industry specific functionality targeting liquid process handling or other applications where routing, storage of material, CIP, etc. are a major concern in the application. Example industries are food & beverage, chemical, pharmaceuticals, tank farms, etc.

ProBase Licenses

ProBase licensing is based on type and number of controllers executing ProBase and the number of ProBase operator workplaces.

	Article no.
ProBase 6.0 Operator Workplace - First Client	3BSE081563R1
ProBase 6.0 Operator Workplace - Additional Client	3BSE081564R1
ProBase 6.0 PM861/PM861A Software License	3BSE081565R1
ProBase 6.0 PM864/PM864A Software License	3BSE081566R1
ProBase 6.0 PM865 Software License	3BSE081567R1
ProBase 6.0 PM866 Software License	3BSE081568R1
ProBase 6.0 PM891 Software License	3BSE081569R1
ProBase 6.0 Demo License and Application Engineering License This license is to be used with the 800xA Demo License and Application Engineering License. The intended use is sales related activities such as fairs, training centers etc that requires a full sized system. It is also intended for application engineering. Media is ordered separately.	3BSE081570R1

S900 Remote I/O System

The S900 remote I/O system communicates with 800xA or other controllers over PROFIBUS. Suitable for applications in the chemical, pharmaceutical, oil and gas industries, S900 I/O can be installed in hazardous areas, thereby reducing mar-shalling and wiring costs. Further maintenance savings can be achieved through S900's extended diagnostics and the use of HART®-compliant field devices.

Three series of S900 I/O are available:

- S-series for applications in Zone 1 hazardous areas
- B-series for applications in Zone 2 hazardous areas
- N-series for applications in non hazardous areas

Additional solutions for specific applications are available:

- Field housing - for wall mounting and field mounting in Zone 1 installations with system approval fully certified in accordance with ATEX. The high-grade steel housing is prepared for wall-mounting with facility for insulated screen rails or terminals.
- CB220 compact box - S900 in compact form (with up to 4 I/O modules). This variant is suitable for use in applications such as temperature multiplexers and solenoid valve circuits.

The S900 components are based on a passive backplane suitable for mounting on a DIN rail or directly in a sub-distribution board. The passive backplane includes internal bus communication, terminals for field circuits, communication, and power supply. The function modules are plugged into the backplane in their appropriate slots. The redundant backplane has two slots for power supply units, two slots for communication interfaces, and 16 slots for function modules. Digital function modules have up to 8 channels, analog modules up to four. Therefore, when using a redundant backplane, 128 digital or 64 analog channels can be connected per station. In the case of the S and B series, up to ten S900 stations can be connected on a single fieldbus line.

Key S900 benefits include:

- Intrinsically safe - can be installed in Zone 1 and Zone 2 areas.
- Good price/performance ratio because external barriers have been removed and costs are reduced in terms of cabling, installation, hardware, and maintenance.
- Easy configuration using either FDT/DTM or GSD files, allowing easy integration with 800xA process control systems.
- High availability of the plant thanks to redundancy and hot-swap capability of all components during operation.

Series	Assembly	Field devices/ signals	Hazardous area approval
S series	In Zone 1	In Zones 2, 1 and 0 (intrinsically safe signals)	ATEX Zone 1
B series	In Zone 2	In Zones 2, 1 and 0 (intrinsically safe signals)	ATEX Zone 2
N series	In safe areas	In safe areas	No

S900



	NAMUR inputs	Binary 24 V	Binary 48 V	Binary 110 V	Binary 230 V	Binary Relay	Analog Unipolar	Analog Bipolar	Temperature RTD	Temperature T/C	SOE	HART	Intrinsic safety	Redundant	High integrity
I/O Features S900															
Digital I/O modules															
DX910S,B,N*	<input checked="" type="checkbox"/>														S,B
Digital output modules															
DO910S,B,N*															S,B
DO930N			<input checked="" type="checkbox"/>												
Pulse input modules															
DP910S,B,N*						<input checked="" type="checkbox"/>									S,B
Analog input modules															
AI910S,B,N*							<input checked="" type="checkbox"/>								S,B
AI930S,B,N*							<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>			S,B
AI931S,B,N*							<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>			S,B
AI950S,B,N*									<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					S,B
Analog output modules															
AO910S,B,N*							<input checked="" type="checkbox"/>								S,B
AO920S,B,N*							<input checked="" type="checkbox"/>								S,B
AO930S,B,N*							<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>			S,B

S900 Remote I/O System – Ex zone 1 system components

Termination Unit



TU921S Redundant Termination Unit (TU16R-Ex)

for 16 I/O-modules
 redundant communication and power
 (Delivery includes CD910)

Article no.

3KDE175111L9210

Power Supply



SA920S Power Supply

for 24 V DC
 Do not mix SA910S with SA920S for redundancy (observe
 Release Notes)

Article no.

3BDH000602R1

Communication Interface



CI920AS Communication Interface V 2.1 (CIPBA-Ex)

Use only CI920AS with the same firmware for redundancy for
 PROFIBUS DP-V1 (observe Release Notes).

Article no.

3BDH000690R1

Digital Input or Output



DX910S Digital Input or Output (DIO8-Ex)

input for dry contact or NAMUR initiator
 output for low power Intrinsic Safe valves

Article no.

3KDE175311L9100

DO910S Digital Output (DO4-Ex)

output for Intrinsic Safe valves

3KDE175321L9100

DP910S Frequency Input (FI2-Ex)

input for dry contact or NAMUR initiator

3KDE175361L9100

S900 Remote I/O System – Ex zone 1 system components

Analog Input



	Article no.	
AI910S Analog input (AI4-Ex) transmitter power supply, 4...20 mA	3KDE175511L9100	
AI930S Analog Input, HART (AI4H-Ex) transmitter power supply, 4...20 mA	3KDE175511L9300	
AI931S Analog Input, HART (AI4H-Ex) passive input, 0/4...20 mA	3KDE175511L9310	
AI950S Temperature (TI4-Ex) Pt100, Pt1000, Ni100 in 2-/3-/4-technology thermocouples type B, E, J, K, L, N, R, S, T isolated inputs channel by channel	3KDE175521L9500	

Analog Output



	Article no.	
AO910S Analog output (AO4-Ex) output 0/4...20 mA	3KDE175531L9100	
AO920S Analog output, isolated (AO4I-Ex) output 0/4...20 mA isolated outputs channel by channel	3KDE175531L9200	
AO930S Analog output HART (AO4H-Ex) output 0/4...20 mA	3KDE175531L9300	

S900 Remote I/O System – Ex zone 2 system components

Termination Unit



TU921B Redundant Termination Unit (TU16R-B)

for 16 I/O-modules
 redundant communication and power
 (Delivery includes CD910)

Article no.

3KDE175112L9210

Power Supply



SA920B Power Supply

for 24 V DC
 the power supply filter type BP901S is not required
 SA920B is the functional replacement for SA910B do not mix
 SA910B with SA920B for redundancy (observe Release Notes)

Article no.

3BDH000601R1

Communication Interface



CI920AB Communication Interface V 2.1 (CIPBA-B)

Use only CI920AB with the same firmware for redundancy for
 PROFIBUS DP-V1 (observe Release Notes).

Article no.

3BDH000691R1

Digital Input or Output



DX910B Digital Input or Output (DIO8-B)

input for dry contact or NAMUR initiator
 output for low power I.S. valves

Article no.

3KDE175312L9100

DO910B Digital Output (DO4-B)

output for I.S. valves

3KDE175322L9100

DP910B Frequency Input (FI2-B)

input for dry contact or NAMUR initiator

3KDE175362L9100

S900 Remote I/O System – Ex zone 2 system components

Analog Input



	Article no.	
AI910B Analog input (AI4-B) transmitter power supply, 4...20 mA	3KDE175512L9100	
AI930B Analog Input, HART (AI4H-B) transmitter power supply, 4...20 mA	3KDE175512L9300	
AI931B Analog Input, HART (AI4H-B) passive input, 0/4...20 mA	3KDE175512L9310	
AI950B Temperature (TI4-B) Pt100, Pt1000, Ni100 in 2-/3-/4-technology thermocouples type B, E, J, K, L, N, R, S, T isolated inputs channel by channel	3KDE175522L9500	

Analog Output



	Article no.	
AO910B Analog output (AO4-B) output 0/4...20 mA	3KDE175532L9100	
AO920B Analog output, isolated (AO4I-B) output 0/4...20 mA isolated outputs channel by channel	3KDE175532L9200	
AO930B Analog output HART (AO4H-B) output 0/4...20 mA	3KDE175532L9300	

S900 Remote I/O System – Safe area system components

Termination Unit



TU921N Redundant Termination Unit (TU16R)

for 16 I/O-modules
 redundant communication and power
 (Delivery includes CD910)

Article no.

3KDE175113L9210

Power Supply



SA920N Power Supply

for 24 V DC
 Do not mix SA910N with SA920N for redundancy (observe
 Release Notes)

Article no.

3BDH000600R1

Communication Interface



CI920AN Communication Interface V 2.1 (CIPBA)

use only CI920AN with the same firmware for redundancy
 for PROFIBUS DP-V1 (observe Release Notes)

Article no.

3BDH000692R1

Digital Input or Output



DX910N Digital Input or Output (DIO8)

input for dry contact or NAMUR initiator
 output for low power valves

Article no.

3KDE175313L9100

DO910N Digital Output (DO4)

output for valves

3KDE175323L9100

DO930N Relay Output (RO6)

with 4 normally-open contacts and 2 changeover contacts

3BDS014114

DP910N Frequency Input (FI2)

input for dry contact or NAMUR initiator

3KDE175363L9100

S900 Remote I/O System – Safe area system components

Analog Input



	Article no.	
AI910N Analog input (AI4) transmitter power supply, 4...20 mA	3KDE175513L9100	
AI930N Analog Input, HART (AI4H) transmitter power supply, 4...20 mA	3KDE175513L9300	
AI931N Analog Input, HART (AI4H) passive input, 0/4...20 mA	3KDE175513L9310	
AI950N Temperature (TI4) Pt100, Pt1000, Ni100 in 2-/3-/4-technology thermocouples type B, E, J, K, L, N, R, S, T isolated inputs channel by channel	3KDE175523L9500	

Analog Output



	Article no.	
AO910N Analog output (AO4) output 0/4...20 mA	3KDE175533L9100	
AO920N Analog output, isolated (AO4I) output 0/4...20 mA isolated outputs channel by channel	3KDE175533L9200	
AO930N Analog output HART (AO4H) output 0/4...20 mA	3KDE175533L9300	

Compact-Box



	Article no.	
CB220N Compact-Box for power supply SA911N, communication interface CI920AN and four I/O modules S900 type N (Delivery includes CD910)	3KDE175613L2210	
SA911N Power supply for CB220N for 24 V DC	3KDE175613L9110	

S900 Remote I/O System – Accessories

Fieldbus isolating repeater

	Article no.	
BI914S Fieldbus isolating repeater separates an intrinsically safe RS485 fieldbus from a non intrinsically safe RS485 fieldbus with bus termination mounted in DIN rail mounted housing with IP20 protection one channel version BARTEC - 07-7311-97WP/K1E0	3BDH000649R1	
BI923S Ring-coupler RS485 / FO - intrinsically safe - Slave separates an intrinsically safe fibre optic ring from a non intrinsically safe RS485 fieldbus BARTEC - 07-7311-97WP5400 mounted in DIN rail mounted housing with IP20 protection (Slave) Optical Plug FSMA	3KDE175831L9230	
BI924S Ring-coupler RS485 / FO intrinsically safe - Master separates an intrinsically safe fibre optic ring from a non intrinsically safe RS485 fieldbus BARTEC - 07-7311-97WP5400 mounted in DIN rail mounted housing with IP20 protection (Master) Optical Plug FSMA	3KDE175831L9240	
BI934S Ring-coupler RS485 / FO intrinsically safe – Slave Separates an intrinsically safe fibre optic ring from one intrinsically safe RS485 fieldbus segment Mounted in separate field housing BARTEC - 07-3103-2512/9003 Optical Plug FSMA	3BDH000674R0001	

Accessories

	Article no.	
BP914S Intrinsically safe PROFIBUS-DP connector for CI920AS and CI920AB D-SUB Connector (color blue) for operating the intrinsically safe PROFIBUS-DP with CI920AS and CI920AB. Siemens 6ES7972-0DA60-0XA0 Connector can only be used with CI920AS and CI920AB. Do not use in combination with CI920S or CI920B. This would violate the explosion protection and could cause destruction of CI920S or CI920B. For CI920S and CI920B connector BP910S has to be ordered as spare part via BOL or Parts OnLine.	3BSE067082R1	
IP920 Module housing IP20 protection for empty slots on the termination unit for use in S900 S, B, and N systems	3KDE175831L9200	
IL910 Insert labels 380 pcs.	3KDE175839L9101	

Software

	Article no.	
CD910, S900 I/O Media CD-ROM CD-ROM incl S900 Documentation, Certificates, GSD (file) CD-ROM will be delivered with all TU921 and CB220 deliveries	3KDE175839L9100	

S900 Remote I/O System – Field Housing S900-FH660S

General Information

The Ex e field housings FH660S from stainless steel (1.4301) serves for the reception of one redundant termination unit (backplane) TU16R-Ex (Order-No. TU921S) as well as further components with ATEX-certification for the hazardous area in zone 1.

Dimensions 600x600x300 mm / for max 100 field cables

The field housings are pre-mounted with stopping plugs instead of cable glands. The cable glands have to be ordered separately at manufacturer Hummel or manufacturer Bimed.

To fulfill the ATEX-certification the following cable glands are recommended:

Manufacturer Hummel:

- Type HSK-M-EMV-Ex M16 (article no. 1646160050)
- Type HSK-M-EMV-Ex M20 (article no. 1646200051)
- Type HSK-M-EMV-Ex M32 (article no. 1646320050)

Manufacturer Bimed:

- Type EBS M16 (article no. EBS01M)
- Type EBS M20 (article no. EBS1M)
- Type EBS M25 (article no. EBS2M)

All S900 modules and power supply components have to be ordered separately!
Additional costs of air transport and courier transport ask under e-mail:
Orderbox-CtrlPr DEAPR/DEAPR/ABB or orderbox.control-products@de.abb.com

Internal Installation

With system certificate.



	Article no.	
FH660S-2000 Field housing including the following components: <ul style="list-style-type: none">- Termination Unit (backplane) TU921S- 4 Terminals (UK10N) Field housings are delivered without cable glands. Cable glands have to be ordered separately (see General information and Product Update 2PAA112874)	3KDE175804V2000	
FH660S-2020 Field housing including the following components: <ul style="list-style-type: none">- Termination Unit (backplane) TU921S- 4 Terminals (UK10N)- 2 Switches Field housings are delivered without cable glands. Cable glands have to be ordered separately (see General information and Product Update 2PAA112874)	3KDE175804V2020	

S900 Remote I/O System – Field Housing S900-FH680S

General Information

The Ex e field housings FH680S from stainless steel (1.4301) serves for the reception of one redundant termination unit (backplane) TU16R-Ex (Order-No. TU921S) as well as further components with ATEX-certification for the hazardous area in zone 1.

Dimensions 600x800x300 mm / for max 100 field cables

The field housings are pre-mounted with stopping plugs instead of cable glands. The cable glands have to be ordered separately at manufacturer Hummel or manufacturer Bimed. To fulfill the ATEX-certification the following cable glands are recommended:

Manufacturer Hummel:

- Type HSK-M-EMV-Ex M16 (article no. 1646160050)
- Type HSK-M-EMV-Ex M20 (article no. 1646200051)
- Type HSK-M-EMV-Ex M32 (article no. 1646320050)

Manufacturer Bimed:

- Type EBS M16 (article no. EBS01M)
- Type EBS M20 (article no. EBS1M)
- Type EBS M25 (article no. EBS2M)

All S900 modules and power supply components have to be ordered separately!
Additional costs of air transport and courier transport ask under e-mail:
Orderbox-CtrlPr DEAPR/DEAPR/ABB or orderbox.control-products@de.abb.com

Internal Installation

With system certificate.

	Article no.
FH680S-2020 Field housing including the following components: <ul style="list-style-type: none">- Termination Unit (backplane) TU921S- 4 Terminals (UK10N)- 2 Switches Field housings are delivered without cable glands. Cable glands have to be ordered separately (see General information and Product Update 2PAA112874)	3KDE175811V2020

S900 Remote I/O System – Accessories

Accessories

	Article no.
Field Housing roof weather protection fits to all field housing	3KDE175831L1000

Fieldbus Network – FOUNDATION Fieldbus Network Components

FOUNDATION Fieldbus HSE/H1 Linking Device

LD 800HSE links the FOUNDATION Fieldbus HSE protocol to the FOUNDATION Fieldbus H1 protocol and vice versa. Up to 4 external powered H1 lines can be connected to one LD 800HSE. Two LD 800HSE can be combined to a redundant set of devices. In this case the Redundancy Link cable is required.

Linking Devices



Linking Device LD 800HSE

LD 800 HSE module for DIN rail mounting with 4 H1 links and one HSE connector. The module itself needs external 24 VDC power supply. H1 links must be powered separately.

Restrictions:

Both Linking Device versions, 3BDH000320R02 and 3BSE073314R1 are not suitable for replacing a device with article no 3BDH000320R0101 in a redundant set of devices. So this restriction is valid for both LDs, the EX and the non-EX version.

For this purpose a limited number of spare devices 3BDH000320R0101 are available via:

ABB AB/Service Center
B357, Tvarleden 2
SE-721 59 Vasteras
Sweden
E-Mail: offer.selog@se.abb.com

Article no.

3BDH000320R02

Linking Devices



Linking Device LD 800HSE EX

LD 800HSE EX module for DIN rail mounting with 4 H1 links and one HSE connector. Certified for hazardous area Zone 2 acc. to ATEX and IECEx. (Observe Release Notes).
The module itself needs external 24 VDC power supply.
H1 links must be powered separately

Restrictions:

Both Linking Device versions, 3BDH000320R02 and 3BSE073314R1 are not suitable for replacing a device with article no 3BDH000320R0101 in a redundant set of devices. So this restriction is valid for both LDs, the EX and the non-EX version.

For this purpose a limited number of spare devices 3BDH000320R0101 are available via:
ABB AB/Service Center
B357, Tvarleden 2
SE-721 59 Vasteras
Sweden
E-Mail: offer.selog@se.abb.com

Article no.

3BSE073314R1

Accessories Linking Device LD 800HSE

Redundancy Link Cable, 0,5m

Redundancy Link Cable links two LD 800HSE to a redundant set of devices.

Article no.

3BDH000281R1

Media and Documentation

	Article no.	
Media CD-ROM LD 800HSE, Version 3.5.0, English Documentation in pdf-format, tools, capabilities file, and bitmaps for LD 800HSE.	3BDD011678R0701	
Media CD-ROM LD 800HSE/LD 800HSE Ex, Version 3.6.0, English Documentation in pdf-format, tools, capabilities file, and bitmaps for LD 800HSE/LD 800HSE EX.	3BDD011678R0801	
Device Management FOUNDATION Fieldbus Linking Device, LD 800HSE 3.5.0/0 Describes in detail the FOUNDATION Fieldbus Linking Device LD 800HSE features, hardware installation, configuration, and diagnostics.	3BDD011677-510	
Device Management FOUNDATION Fieldbus Linking Device, LD 800HSE 3.6.0 Describes in detail the FOUNDATION Fieldbus Linking Device LD 800HSE/LD 800HSE EX features, hardware installation, configuration, and diagnostics.	3BDD011677-600	

Network Components – PROFIBUS Network Components

PROFIBUS Redundancy Link Module RLM01

The RLM01 is delivered with a printed manual.

	Article no.	
RLM01, PROFIBUS Redundancy Link Module for PROFIBUS line redundancy Converts a non-redundant PROFIBUS line to two redundant RS485 lines or vice versa. Germanischer Lloyd (GL) certified (cat. A,B,C,D) in connection with power supply filter (3BDZ000397R1).	3BDZ000398R1	
Power Supply Filter (surge) 24 V DC Mandatory to fulfill the requirements of Germanischer Lloyd (GL). WAGO article no. 750-626	3BDZ000397R1	

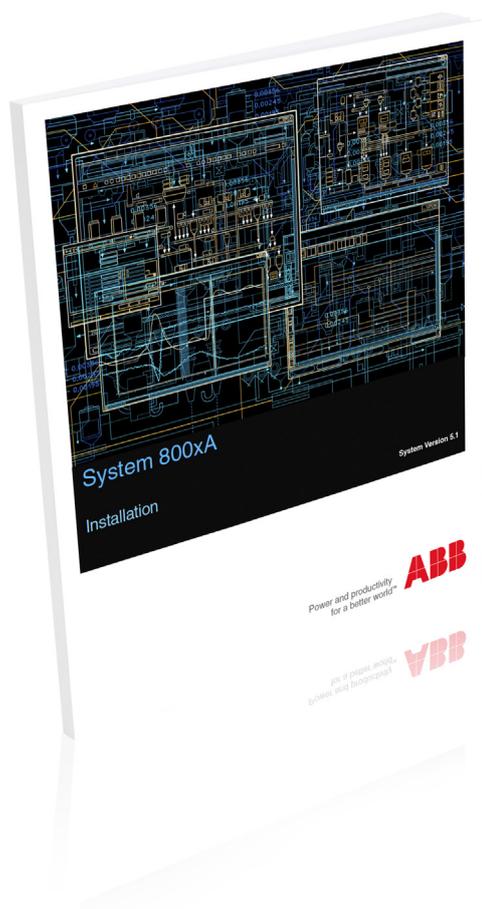
PROFIBUS DP Accessories

	Article no.	
PCO 010, PROFIBUS DP connector, standard max. 12 Mbit/s, 35° cable outlet, IP40, without bus termination Phoenix Contact article no. 2744597	3BDZ000370R1	
PCO 011, PROFIBUS DP connector with bus termination max. 12 Mbit/s, 35° cable outlet, IP40, switchable bus termination Phoenix Contact article no. 2708232.	3BDZ000371R1	
PCO 012, PROFIBUS DP connector with bus termination and adapter max. 12 Mbit/s, 35° cable outlet, IP40, switchable bus termination, programming connection SUB-D Phoenix Contact article no. 2708245	3BDZ000372R1	

800xA 6.0 System – Media and Documentation

Related Documentation

A complete list of all documents applicable to the 800xA System is provided in Released User Documents (3BUA000263-600). This document lists applicable Release Notes and User Instructions. It is provided in PDF format and is included on the Release Notes/Documentation media provided with your system. Released User Documents are updated with each release and a new file is provided that contains all user documents applicable for that release with their applicable document number. Whenever a reference to a specific instruction is made, the instruction number is included in the reference.



Media and Documentation – Industrial IT 800xA

Industrial IT 800xA – Media

The articles in section 1 may only be selected when ordering a new 800xA system, or if the end user has a valid Automation Sentinel agreement.

	Article no.	
System 800xA 6.0, Media Box (Solid State Drive) Including: System 800xA 6.0, and User Documentation on a Solid State Drive device.	3BSE079233R600	
System 800xA 6.0, Media Box (CD/DVD) Including: System 800xA 6.0, and User Documentation on DVD and CD.	3BSE078932R600	

Media and Documentation – Library

Library – Media

	Article no.	
INF190 Function Code Library for AC 800M CD/DVD Media – INF190FCLib Latest Revision	3BSE079546R200	
MOD 300 CCF Library for AC 800M CD/DVD Media MODCCFLib 2.1-x latest revision – Supports System version 5.1.	3BSE079547R21	
CD media with Process Industries Application Libraries for System 800xA	3BSE057164R1	

Media and Documentation – Dongles

Dongles



	Article no.	
Dongle for USB Port To be used with 800xA 5.1 Rev A. For USB Dongle to 800xA 5.1 (not Rev A), 800xA 5.0, 800xA 4.1 and 800xA 3.1, please, purchase the Dongle from price book 3BSE41710, System 800xA Expansion.	3BSE064644R1	

800xA Base System User Documentation



800xA Base System User Documentation

Note! User Manuals are printed on demand and delivery time expects to 15 working days. For S900 I/O documentation, please, refer to the S900 I/O and Fieldbus Network Components price book, 2PAA102823.

	Article no.	
800xA Base System Documentation Documents included: Manual Installation, Automated Installation, Upgrade, Network Configuration, IEC 61850 Engineering Workflow, IEC 61850 Configuration, IEC 61850 Operation Library Substation Equipment, PC Network and Software Monitoring Operation, PC Network and Software Monitoring Configuration, Administration and Security, Post Installation, Configuration, Operations, System Planning, Site Planning, Server Node Virtualization, Tools, Multisystem Integration, Maintenance, VideONet Connect.	3BSE079003-600	
800xA for Advant Master – Connectivity Documentation Documents included: Advant Master Configuration, Advant Master Operation, Advant Master Graphic Library, Advant Master Extended Graphic Library	3BSE079004-600	
800xA for Harmony – Connectivity Documentation Documents included: Harmony Configuration, Harmony Operation	3BSE079005-600	
800xA for DCI – Connectivity Documentation Documents included: DCI Configuration, DCI Operation	3BSE079006-600	
800xA for AC 870P/Melody – Connectivity Documentation Documents included: AC 870P/Melody Configuration, AC 870P/Melody Asset Management for HART devices Configuration.	3BSE079007-600	
800xA for MOD 300 – Connectivity Documentation Documents included: MOD 300 Configuration, MOD 300 Operation	3BSE079008-600	
PLC Connect – Connectivity Documentation Documents included: PLC Connect Operation, PLC Connect Configuration	3BSE079009-600	
800xA for Safeguard – Connectivity Documentation Documents included: Safeguard Configuration, Safeguard Operation, Safeguard Graphic Library	3BSE079010-600	
800xA for AC 100 – Connectivity Documentation Documents included: AC 100 Aspect Object Types, AC 100/AC 100 OPC Server Installation, AC 100 OPC Server Configuration and Operation, AC 100 Configuration and Operation	3BSE079011-600	
Operations Documentation Documents included: Operations Operator Workplace Configuration, Mobile Devices Support	3BSE079012-600	
Batch Management Documentation Documents included: Batch Management Operation, Batch Management Configuration	3BSE079013-600	
Information Management Documentation Documents included: Information Management Getting Started, Information Management Configuration, Information Management Display Services, Information Management Data Access and Reports.	3BSE079014-600	

800xA Base System User Documentation

800xA Base System User Documentation

	Article no.	
Engineering Documentation Documents included: Engineering Studio, Engineering Studio Function Designer, Engineering Studio Topology Designer, Engineering Process Graphics, Engineering Process Graphics Migration Tool, Engineering Process Graphics based on Visual Basic, Engineering Process Engineering Tool Integration, Engineering Studio Function Designer Getting Started, Engineering and Production Environments, Engineering Programmers Guide, Engineering Application Change Management.	3BSE079015-600	
AC 800M Documentation Documents included: AC 800M Getting Started, AC 800M Configuration, AC 800M Planning, AC 800M Binary and Analog Handling, AC 800M Library Object Style Guide, AC 800M OPC Server, AC 800M Communication Protocols, AC 800M FOUNDATION Fieldbus HSE, AC 800M PROFIBUS DP Configuration, AC 800M PROFIBUS DP Installation, AC 800M ProfiNet IO Configuration, AC 800M AC 800M DriveBus, AC 800M Ethernet/IP DeviceNet Configuration, AC 800M Ethernet/IP DeviceNet Installation, AC 800M IEC 61850 Configuration, AC 800M Controller Hardware, AC 800M Interfacing SATT I/O. Advant Fieldbus 100 User Manual, TRIO/Genius Getting Started, TRIO/Genius	3BSE079016-600	
S800 I/O Documentation Documents included: S800 I/O Getting Started, S800 I/O Modules and Termination Units, S800 I/O Fieldbus Communication Interface for PROFIBUS DP/DP-V1, S800 I/O Modules and Termination Units with Intrinsic Safety, S800 I/O DTM 5.3	3BSE079017-600	
S200 I/O Documentation Documents included: S200 I/O Hardware	3BSE079018-600	
AC 800M High Integrity Documentation Documents included: Safety Manual AC 800M High Integrity, Safety Manual AC 800M High Integrity Reliability and Availability Data	3BSE079019-600	
Asset Optimization Documentation Documents included: Asset Optimization Configuration, Asset Optimization Operation	3BSE079020-600	
Device Management and Fieldbus Documentation Documents included: Device Management Device Library Wizard	3BSE079021-600	
Device Management FOUNDATION Fieldbus Documentation Documents included: Device Management FOUNDATION Fieldbus Configuration	3BSE079022-600	
Device Management PROFIBUS and HART Documentation Documents included: Device Management PROFIBUS and HART Configuration, Device Management Basic PROFIBUS DTM 5.3, Device Management Basic HART DTM 5.2, Device Management PROFIBUS DTM Builder 5.3, Device Management HART DTM Builder 5.2.	3BSE079023-600	

Panel 800 Version 6

Panel 800 is a user-friendly, intuitive and ergonomic operator panel that combines slim, space saving dimensions with a comprehensive range of advanced functions.

All panels are equipped with advanced functionality for process and equipment control, maneuvered either by function keys located next to the screen or by touching the LCD display. Combined with market leading performance and stunning graphical ability, the Panel 800 erodes the line between ordinary Operator Panels and PC based HMIs. Panel 800 is the successor after the Process Panels.

Panel 800 is designed specifically for ABB Control Network and AC 800M controllers, but thanks to the extensive driver library, the Panel 800 is compatible with most makes of PLC and ABB legacy control systems. When using it together with AC 800M, certain unique features become available, such as integrated alarm handling with the controller.

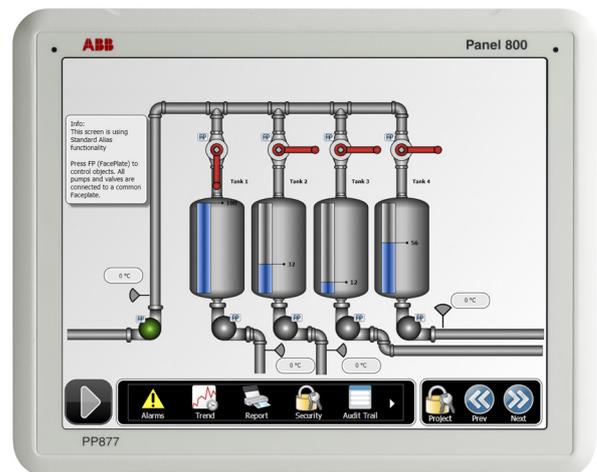
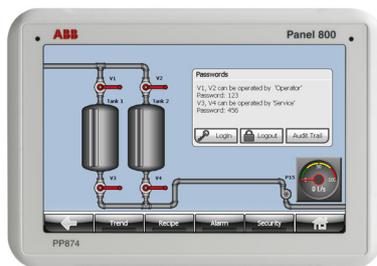
Panel 800 consists of a modern powerful hardware platform, which enables a very limited mounting depth. The frame is made of powder-coated aluminum, giving the panels a very robust look-and-feel. The front enclosure is designed to withstand demanding industrious usage according to the IP66 standard. The panels have also been certified by DNV and UL.

In December 2012, ABB launched the Panel 800 version 6 series. All Panel 800 Version 6 are developed to satisfy the demands of human-machine communication. Built-in functions such as displaying and controlling text, dynamic indication, time channels, alarm and recipe handling are included.

The Panel 800 Version 6 works primarily in an object-oriented way, making it easy to understand and use. Configuration is carried out on a PC using the Panel Builder configuration tool. The project can then be transferred and stored in the operator panel itself.

Various types of automation equipment such PLCs, servos or drives can be connected to the Panel 800 Version 6.

Touch panels



Specifications Panel 800 Version 6

Specifications Panel 800	
Display backlight	CCFL/LED backlight with dimming function
CPU	316 or 416 MHz RISC CPU (Intel Xscale)
Memory, flash	32 MB (Intel StrataFlash)
Memory, RAM	64 MB
Flash memory for application	12 MB
Real time clock	YES
Power supply	+24 C14 20-30 V
Ambient temperature	0 ° to +50 °C
Relative humidity	5 - 85 % non-condensing
Housing material	Powder-coated aluminium
Front side material	Autotex F250 / F157 (keyboard), (PP865S in Stainless Steel 316/1.4401)
Peripherals	
Serial Ports	RS422/RS485, female, 25-pin D-Sub, RS232C, male, 9-pin D-Sub
Ethernet	Shielded RJ45 10/100 Mbit/sec
USB	Host type A (power consumption max. 500 mA), Device type B
PROFIBUS	Expansion slot for PROFIBUS DP
Environmental Data for Panel 800	
Climatic Operating Conditions	Vertical installation: 0 ° to +50 °C Horizontal installation: 0 ° to +40 °C Storage temperature -20 °C to +70 °C Relative humidity 5 - 85 % non-condensed
Protection class	Front panel seal IP 66 Rear panel seal IP 20
Electromagnetic Compatibility and CE-mark	Meets EMC directive 2004/108/EC
Electromagnetic Emission	Tested according to EN61000-6-4 (2007)
Electromagnetic Immunity	Tested according to EN61000-6-2 (2005)
Electrical Safety	UL508
Hazardous Classified Locations	UL 1604 Class I, Div 2 Groups A, B, C, D, T4
Marine Certificates	ABS, DNV, GL, RINA

Specifications	PP871	PP874	PP877
Display size	4,3"	7"	10,4"
Resolution	480 x 272 pixels (16:9)	800 x 480 pixels (16:9)	640 x 480 pixels (4:3)
Interaction type	Resistive Touch	Resistive Touch	Resistive Touch
LED	-	-	-
Power consumption (normal/max)	3,6 W	6,0 W	9,6 W
Dimensions			
Front panel, W x H x D	145 x 103 x 49 mm	204 x 143 x 49 mm	280 x 228 x 51 mm
Cut-out dimensions	128 x 87 x 43 mm	187 x 126 x 43 mm	262 x 209 x 46 mm
Mounting	Panel mount and VESA 50 x 50	Panel mount and VESA 75 x 75	Panel mount and VESA 75 x 75
Net weight	ca. 0.5 kg	ca. 0.8 kg	ca. 1.5 kg

Specifications	PP882	PP885		
Display size	12.1"	15.4"		
Resolution	1280 x 800 pixels (16:10)	1280 x 800 pixels (16:10)		
Interaction type	Resistive Touch	Resistive Touch		
LED	-	-		
Power consumption (normal/max)	22 W	24 W		
Dimensions				
Front panel, W x H x D	340 x 242 x 79 mm	410 x 286 x 83 mm		
Cut-out dimensions	324 x 226 mm	394 x 270 mm		
Mounting	Panel mount and VESA 75 x 75	Panel mount and VESA 75 x 75		
Net weight	ca. 2.6 kg	ca. 3.85 kg		

Panel 800 Version 6 – Software Management Program

Software Management Program

Automation Sentinel is the ABB control system lifecycle support program. An introductory trial period to the Automation Sentinel program will be included, at no additional cost, with each new ABB control system software delivery. Please contact your designated Automation Sentinel responsible for any questions or please refer to the Automation Sentinel 3.0 product guide for detailed information on the program and on how to calculate and order Automation Sentinel subscriptions.

Upgrade Orders

	Article no.	
Panel Builder 800 Version 6, for upgrades only Media folder with Panel Builder 800 Version 6 containing the latest version of: <ul style="list-style-type: none">- Panel Builder 800 Version 6- Firmware for panels- Manuals as pdf-files- Release Notes- Renewed license- Mouse Pad This item can be ordered by users with a valid Automation Sentinel agreement for Panel Builder 800 Version 6.	3BSE069301R1	

Panel 800 Version 6 – Panel Builder 800

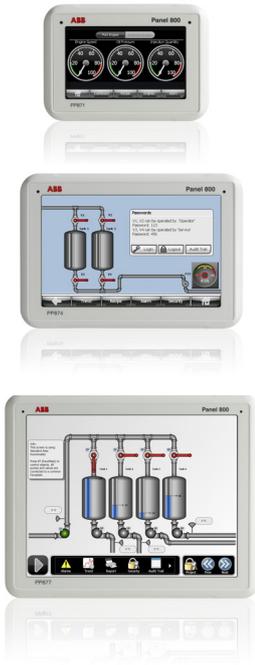
Panel Builder 800



	Article no.	
Panel Builder 800 Version 6 Media folder with Panel Builder 800 Version 6 containing the latest version of: <ul style="list-style-type: none">- Panel Builder 800 Version 6- Firmware for panels- Manuals as pdf-files- Release Notes- License for one Panel Builder 800 Version 6- Mouse Pad	3BSE069300R1	

Panel 800 Version 6 – Operator Panels

Touch Panels



PP871 Touch panel 4.3"
 TFT 480x272 (16:9)
 Requires Panel Builder 800 Version 6 for configuration.

PP874 Touch panel 7"
 TFT 800x480 (16:9)
 Requires Panel Builder 800 Version 6 for configuration.

PP877 Touch panel 10.4"
 TFT 640x480 (4:3)
 Requires Panel Builder 800 Version 6 for configuration.

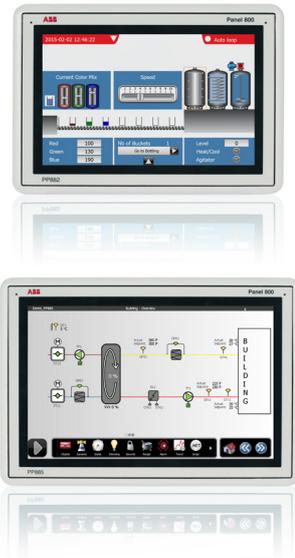
Article no.

3BSE069270R1

3BSE069271R1

3BSE069272R1

High Performance Touch Panels



PP882 High performance touch panel 12"
 TFT 1280x800 (16:9)
 Requires Panel Builder 800 Version 6 for configuration.

PP885 High performance touch panel 15"
 TFT 1280x800 (16:9)
 Requires Panel Builder 800 Version 6 for configuration.

Article no.

3BSE069275R1

3BSE069276R1

Panel 800 Version 6 – Accessories

Communication Interface for Panel 800

	Article no.	
CB810 USB to Ethernet adapter for programming USB to Ethernet adapter with software Cross over Ethernet patch cable included	3BSE042255R1	

Connection Cables for Panel 800

	Article no.	
TK858V002 Adapter cable (CAB 107, TK855V002) Adapter cable RS232 - RS485 0.2 m 9 pin D-Sub to 25 pin D-Sub. For using 5.1 RS422/485 cables on Version 6 panels.	3BSE069474R1	
TK859V000 Gender changer (TK856V000) Gender changer 9 pin D-Sub male/male.	3BSE069475R1	
TK860V001 Splitter cable (CAB 109, TK857V001) Splitter cable Version 6 panel. Y-split cable to utilize more than two COM ports on Version 6 panels.	3BSE069476R1	

Miscellaneous

	Article no.	
RX871 Touch cover for PP871	3BSE069286R1	
RX874 Touch cover for PP874	3BSE069287R1	
RX877 Touch cover for PP877	3BSE069288R1	
RX882 Touch cover for PP882	3BSE069291R1	
RX885/893 Touch cover for PP885/893	3BSE069292R1	
RX896 Touch cover for PP896	3BSE069294R1	
MB802V2 SD card 2GB Secure Digital memory card 2GB Industrial grade for Version 6 panels.	3BSE069477R1	

Panel 800 Version 6 – Dongles

Dongles

	Article no.	
Panel 800 Version 6 dongle 250 tags Dongle 250 tags.	3BSE069282R1	
Panel 800 Version 6 dongle 2000 tags Dongle 2000 tags.	3BSE069283R1	
Panel 800 Version 6 dongle 4000 tags Dongle 4000 tags.	3BSE069284R1	

Panel 800 Version 5

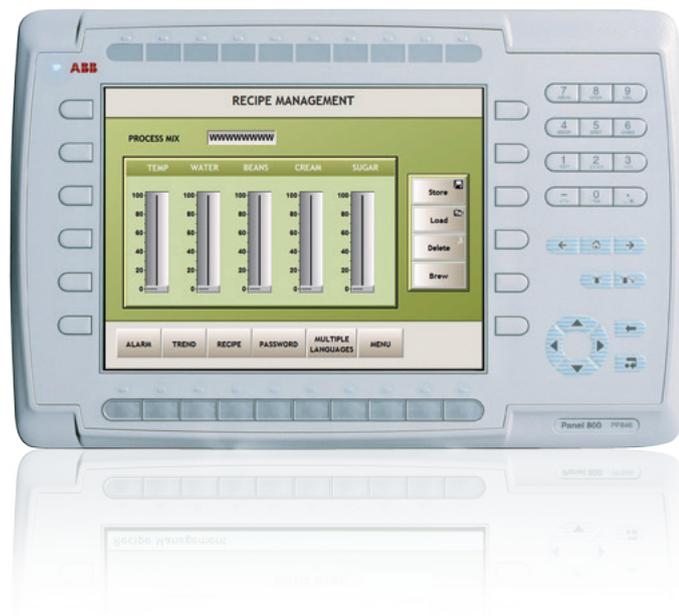
Panel 800 is a user-friendly, intuitive and ergonomic operator panel that combines slim, space saving dimensions with a comprehensive range of advanced functions.

All panels are equipped with advanced functionality for process and equipment control, maneuvered either by function keys located next to the screen or by touching the LCD display. Combined with market leading performance and stunning graphical ability, the Panel 800 erodes the line between ordinary Operator Panels and PC based HMIs. Panel 800 is the successor after the Process Panels.

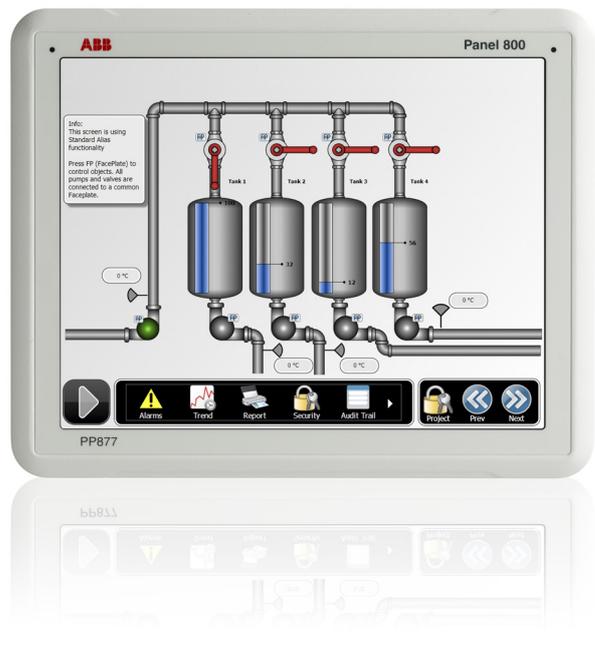
Panel 800 is designed specifically for ABB Control Network and AC 800M controllers, but thanks to the extensive driver library, the Panel 800 is compatible with most makes of PLC and ABB legacy control systems. When using it together with AC 800M, certain unique features become available, such as integrated alarm handling with the controller.

Panel 800 consists of a modern powerful hardware platform, which enables a very limited mounting depth. The frame is made of powder-coated aluminum, giving the panels a very robust look-and-feel. The front enclosure is designed to withstand demanding industrious usage according to the IP66 standard. The panels have also been certified by DNV and UL.

Key panel



Touch panel



Specifications Panel 800 Version 5

Specifications Panel 800	
Display backlight	CCFL/LED backlight with dimming function
CPU	316 or 416 MHz RISC CPU (Intel Xscale)
Memory, flash	32 MB (Intel StrataFlash)
Memory, RAM	64 MB
Flash memory for application	12 MB
Real time clock	YES
Power supply	+24 C14 20-30 V
Ambient temperature	0 ° to +50 °C
Relative humidity	5 - 85 % non-condensing
Housing material	Powder-coated aluminium
Front side material	Autotex F250 / F157 (keyboard), (PP865S in Stainless Steel 316/1.4401)
Peripherals	
Serial Ports	RS422/RS485, female, 25-pin D-Sub, RS232C, male, 9-pin D-Sub
Ethernet	Shielded RJ45 10/100 Mbit/sec
USB	Host type A (power consumption max. 500 mA), Device type B
PROFIBUS	Expansion slot for PROFIBUS DP
Environmental Data for Panel 800	
Climatic Operating Conditions	Vertical installation: 0 ° to +50 °C Horizontal installation: 0 ° to +40 °C Storage temperature -20 °C to +70 °C Relative humidity 5 - 85 % non-condensed
Protection class	Front panel seal IP 66 Rear panel seal IP 20
Electromagnetic Compatibility and CE-mark	Meets EMC directive 2004/108/EC
Electromagnetic Emission	Tested according to EN61000-6-4 (2007)
Electromagnetic Immunity	Tested according to EN61000-6-2 (2005)
Electrical Safety	UL508
Hazardous Classified Locations	UL 1604 Class I, Div 2 Groups A, B, C, D, T4
Marine Certificates	ABS, DNV, GL, RINA

Specifications	PP820A	PP826A	PP836A	PP846A
Display size	-	5,7"	6,5"	10,4"
Active area of display, W x H	127,0 x 33,8 mm			
Resolution	240 x 64 pixels	320 x 240 pixels	640 x 480 pixels	800 x 600 pixels
Interaction type	Function key	Function key	Function key	Function key
LED	16 (2 color)	16 (2 color)	16 (2 color)	20 (2 color)
Power consumption (normal/max)	0,15 A	0,3 A	0,4 A / 0,9 A	0,5 A / 1 A
Dimensions				
Front panel, W x H x D	202 x 187 x 57 mm	275 x 168 x 57 mm	285 x 177 x 60 mm	382 x 252 x 60 mm
Cut-out dimensions	166 x 149 mm	240 x 130 mm	246 x 139 mm	343 x 208 mm
Mounting depth	57 mm	58 mm	55 mm	58 mm
Weight	0,875 kg	1,11 kg	1,3 kg	2,3 kg

Specifications	PP815A	PP825A	PP835A	PP845A	PP865A
Display size	3,8"	5,7"	6,5"	10,4"	15"
Resolution	320 x 240 pixels	320 x 240 pixels	640 x 480 pixels	800 x 600 pixels	1024 x 768 pixels
Interaction type	Resistive Touch				
LED	-	-	-	-	-
Power consumption (normal/max)	0,15 A	0,25 A	0,4 A / 0,9 A	0,5 A / 1 A	1,2 A / 1,7 A
Dimensions					
Front panel, W x H x D	156 x 119 x 59 mm	201 x 152 x 57 mm	219 x 154 x 60 mm	302 x 228 x 60 mm	398 x 304 x 60 mm
Cut-out dimensions	139 x 105 mm	180 x 130 mm	189 x 138 mm	265 x 206 mm	356 x 279 mm
Mounting depth	57 mm	57 mm	55 mm	58 mm	60 mm
Weight	0,56 kg	0,87 kg	1,1 kg	2 kg	3,7 kg

Panel 800 Version 5 – Control System Lifecycle Support Program

Control System Lifecycle Support Program

Automation Sentinel is the ABB control system lifecycle support program. An introductory trial period to the Automation Sentinel program will be included, at no additional cost, with each new ABB control system software delivery. Please contact your designated Automation Sentinel responsible for any questions or please refer to the Automation Sentinel 3.0 product guide for detailed information on the program and on how to calculate and order Automation Sentinel subscriptions.

Upgrade Orders

	Article no.	
Panel Builder 800 Version 5 Media folder with Panel Builder 800 Version 5 containing the latest version of: <ul style="list-style-type: none">- Panel Builder 800 Version 5 and Panel Tools- Firmware for panels- Manuals as pdf-files- Release Notes- Renewed license This item can be ordered by users with a valid Automation Sentinel agreement for Panel Builder 800 Version 5.	3BSE052516R1	

Panel 800 Version 5 – Panel Builder 800

Panel Builder 800



	Article no.	
Panel Builder 800 Version 5 Media folder with Panel Builder 800 Version 5 containing the latest version of: <ul style="list-style-type: none">- Panel Builder 800 Version 5 and Panel Tools- Firmware for panels- Manuals as pdf-files- Release Notes- License for one Panel Builder 800 Version 5	3BSE042250R1	

Panel 800 Version 5 – Operator Panels

Functional Key Panels



PP820A

240*64 pixels, graphics & text, black/white.
 New CPU and power boards – no UL 1604 certification.
 Requires Panel Builder 800 version 5 for configuring. To protect the front, it's recommended to use the RX820 Key Cover.

Article no.

3BSE042243R2



PP826A

5,7" TFT, 320x240 pixels, graphics & text, color.
 New display, CPU and power boards – no UL 1604 certification.
 Requires Panel Builder 800 version 5 for configuring. To protect the front, it's recommended to use the RX826 Key Cover.

3BSE042244R3



PP836A

6,5" TFT, 640x480 pixels, graphics & text, color.
 New display, CPU and power boards – no UL 1604 certification.
 Requires Panel Builder 800 version 5 for configuring. To protect the front, it's recommended to use the RX836 Key Cover.

3BSE042237R2



PP846A

10,4" TFT, 800x640 pixels, graphics & text, color.
 New CPU and power boards – no UL 1604 certification.
 Requires Panel Builder 800 version 5 for configuring. To protect the front, it's recommended to use the RX846 Key Cover.

3BSE042238R2

Panel 800 Version 5 – Touch Panels

Touch Panels



PP815A

3,5" TFT, 320x240 pixels, graphics & text, touch, color.
 New display, CPU and power boards – no UL 1604 certification.
 Requires Panel Builder 800 version 5 for configuring.
 To protect the touch screen, it's recommended to use the
 RX815 Touch Cover.

Article no.

3BSE042239R2



PP825A

5,7" TFT, 320*240 pixels, graphics & text, touch, color.
 New display, CPU and power boards – no UL 1604 certification.
 Requires Panel Builder 800 version 5 for configuring.
 To protect the touch screen, it's recommended to use the
 RX825 Touch Cover.

3BSE042240R3



PP835A

6,5" TFT, 640x480 pixels, graphics & text, touch, color.
 New display, CPU and power boards – no UL 1604 certification.
 Requires Panel Builder 800 version 5 for configuring.
 To protect the touch screen, it's recommended to use the
 RX835 Touch Cover.

3BSE042234R2



PP845A

10,4" TFT, 800x640 pixels, graphics & text, touch, color.
 New CPU and power boards – no UL 1604 certification.
 Requires Panel Builder 800 version 5 for configuring.
 To protect the touch screen, it's recommended to use the
 RX845 Touch Cover.

3BSE042235R2



PP865A

15" TFT, 1024x768 pixels, graphics & text, touch, color.
 New CPU and power boards – no UL 1604 certification.
 Requires Panel Builder 800 version 5 for configuring.
 To protect the touch screen, it's recommended to use the
 RX865 Touch Cover.

3BSE042236R2

Panel 800 Version 5 – Accessories

Connection Cables for Panel 800



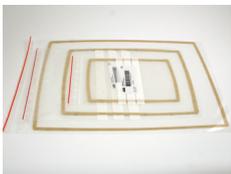
	Article no.
TK854V030 Programming Cable RS232 programming cable Panel 800 Version 5 <--> PC Length 3 m.	3BSE042251R1
TK212A Tool cable RJ45 (male) to Dsub-9 (female), length 3 m. RJ45 8P8C plug (with shell). Cable : UL2464 26 AWG x 8C. For serial communication between Panel 800 Version 5 panels and AC 800M.	3BSC630197R1

Communication Interface for Panel 800



	Article no.
CB801 PROFIBUS DP Communication Interface PROFIBUS DP slave expansion module for Panel 800 Version 5 panels.	3BSE042245R1
CB810 USB to Ethernet adapter for programming USB to Ethernet adapter with software. Cross over Ethernet patch cable included.	3BSE042255R1

Miscellaneous



	Article no.
RX815 Touch cover for PP815/PP815A, 1 pcs	3BSE049366R1
RX820 Key cover for PP820/PP820A, 1 pcs	3BSE049367R1
RX825 Touch cover for PP825/PP825A, 1 pcs	3BSE042246R1
RX826 Key cover for PP826/PP826A, 1 pcs	3BSE049368R1
RX835 Touch cover for PP835/PP835A, 1 pcs	3BSE042247R1
RX836 Key cover for PP836/PP836A, 1 pcs	3BSE049369R1
RX845 Touch cover for PP845/PP845A, 1 pcs	3BSE042248R1
RX846 Key cover for PP846/PP846A, 1 pcs	3BSE049370R1
RX865 Touch cover for PP865/PP865A, 1 pcs	3BSE042249R1



MB801V512 Compact Flash card Expansion Compact Flash memory for Panel 800 Version 5 panels, 512 MB	3BSE042257R1
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IEC 61850 Engineering Tool for 800xA 6.0

With the built-in electrical control system, ABB's 800xA provides ways to be in control of the complete electrical system, from high-voltage switchgear to low-voltage motor control. Whether together with 800xA DCS or not, 800xA is the ideal solution as your Engineering Tool for Electrical Control Systems.

Reduce hardwired cabling on switchgear by connecting to intelligent devices, no matter which standard protocol you have.

The high reliability on digital communication improves the information flow from the devices and additional electrical measurement equipment can be removed. Simpler installations and reduced automation system are easier to engineer and maintain.

In addition, 800xA electrical control system allows the asset management strategies to be extended to electrical equipment. The result is reduced plant downtime and an optimal level of production.

IEC 61850 Engineering Tool

The engineering tool is licensed on a per seat basis, separate from System 800xA licenses. The detailed license process is described in Ref. Doc 2PAA113852.

This ABB IEC 61850 Engineering Tool version can be used for 800xA 5.1 FP4 and 800xA 6.0

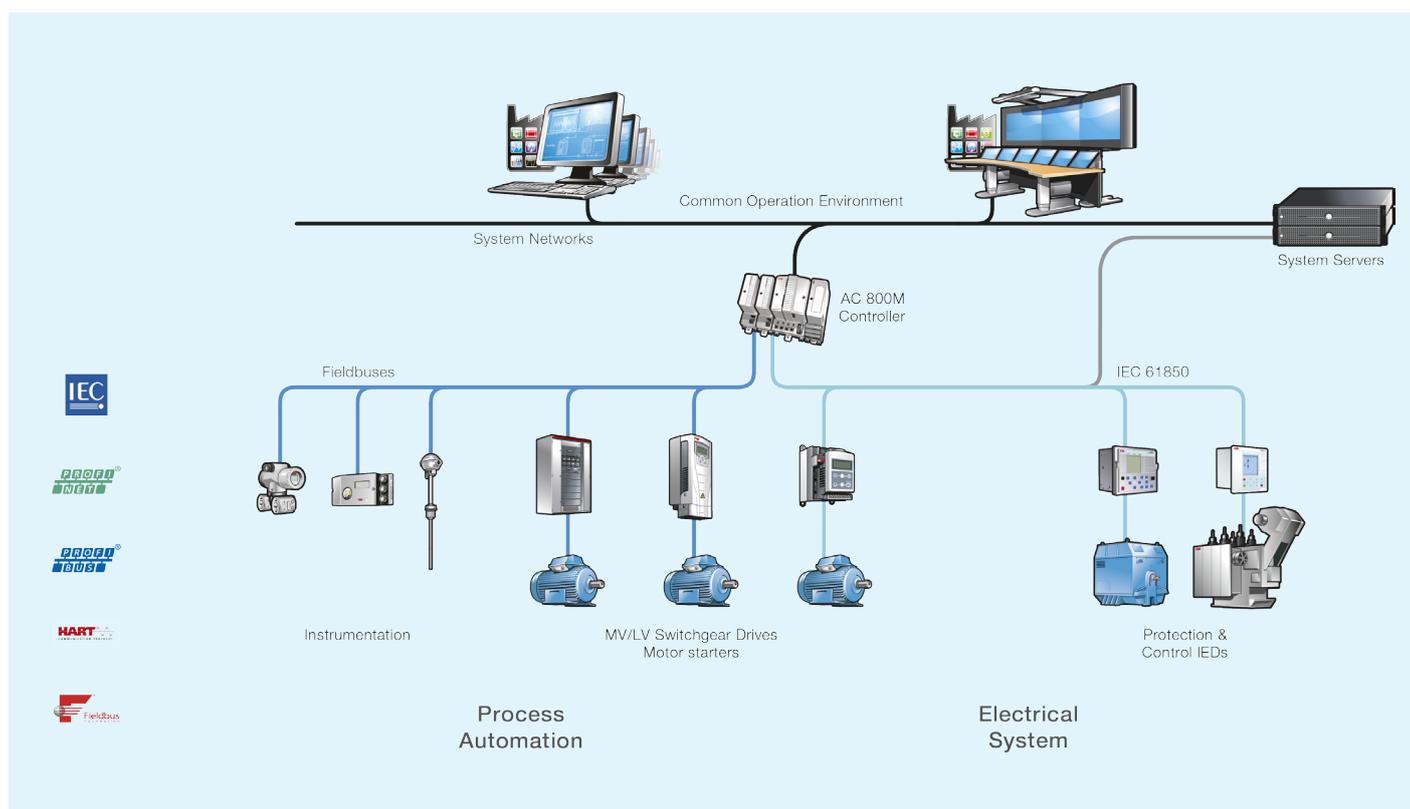
IEC 61850 Engineering Tool for 800xA 6.0 – Project Engineering and End Customer use

This ABB IEC 61850 Engineering Tool version IET 600 5.x is used ABB wide and can be ordered from one central place ABB Power Products.

Product type IET 600 5.x – Integrated Engineering Tool with USB-dongle.

This tool version is released for Microsoft Windows 7/8.1 and Microsoft Server 2008/2012.

This license is a one-time fee (no renewal is necessary) and can be ordered via the ABB Power Product division Website: [CCP – Common Configurator Platform](#)



Extended Warranty Time – S800 I/O, S900 I/O, Fieldbus and AC 800M

Extended warranty time on hardware for S800 I/O, S900 I/O, Fieldbus and AC 800M

Terms and conditions for the supply of products from Local Division Process Automation, LBU Control Technologies within ABB AB in Sweden is valid.

Note that the price for the Extended Warranty Time order will be calculated as a percentage of the affected S800 I/O, S900 I/O, Fieldbus and AC 800M articles in the accompanying order.

- Item A100 => 3% of the affected HW articles within the whole order
- Item A110 => 6% of the affected HW articles within the whole order
- Item A120 => 9% of the affected HW articles within the whole order

	Article no.	
12 additional months warranty time – S800 I/O, S900 I/O, Fieldbus and AC 800M	3BSE049878R1	
24 additional months warranty time – S800 I/O, S900 I/O, Fieldbus and AC 800M	3BSE049878R2	
36 additional months warranty time – S800 I/O, S900 I/O, Fieldbus and AC 800M	3BSE049878R3	

S800



AC 800M



S900



System 800xA Marketing Material

Marketing material available for 800xA

This is a new service for order and delivery of our 800xA marketing material from Operation Center in Västerås, Sweden, via BOL (Business Online)

If you have further questions on order and shipping for marketing material, please contact dc-orderbox@se.abb.com, alternatively by phone +46 21 325700 (order department)



Marketing Materials

Orders greater than max quantity on request.

Brochures



Brochures

Print on Demand. Delivery time up to 10 days.

	Article no.
ABB Value Provider Program – A Partnership for growth and profit Revised 2014. 8 pages brochure. Rev F	3BSE048129-EN

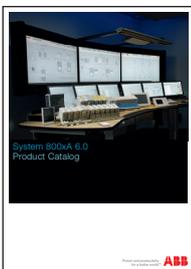
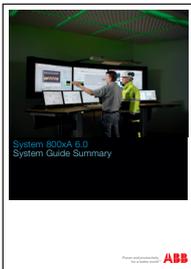
Brochures – System 800xA



Brochures

Print on Demand.

	Article no.
800xA System Introduction	3BSE077506-EN
800xA Solutions Handbook	3BSE069330-EN
800xA 6.0 System Guide Summary	3BSE078159-EN
800xA 6.0 Product Catalog	3BSE078160-EN
Panel 800 Version 6 Overview	3BSE070214-EN
800xA Engineering Overview	3BDD013082-EN
800xA Asset Management Overview	3BUS095292-EN
800xA Batch Management Overview	3BUS095068-EN
800xA AC 800M Control and I/O Overview	3BSE047351-EN
800xA S800 I/O System – Overview	3BSE009891-EN
800xA Electrical Control System Overview	3BSE062087-EN
800xA Device Management Overview	3BDD013081-EN
800xA Simulator – Improve safety and productivity through simulation	3BSE059989-EN
800xA Enables Effective Operations	3BSE059723-EN
800xA Server Node Virtualization	3BSE065912-EN
800xA Alarm Management Overview	3BSE067466-EN
System 800xA Evolve your plant into the future	3BSE063622-EN
Evolution of TDC3000 Connect to System 800xA	3BSE051328-EN
800xA 5.1 and feature releases Executive Summary	3BSE069638-EN
800xA Control rooms of the future are here now	3BSE068791-EN



Brochures – System 800xA related material



Brochures

	Article no.	
Food & Beverage Manufacturing Solutions Overview	3BSE065421-EN	
ProBase – System 800xA libraries for food and beverage operations	3BSE042371-EN	
Control Technologies Service Center – Life Cycle Parts Services	3BSE065503-EN	

Data Sheets



Data Sheets

Print on Demand. Delivery time up to 10 days.

	Article no.	
800xA System Capabilities Data Sheet	3BSE039129-EN	
AC 800M Controller Data Sheet	3BSE063691-EN	
S800 IO System – Outline of all modules	3BSE025986-EN	
S800 I/O Communication interfaces	3BSE039116-EN	
800xA Power supplies and voters	3BSE054914-EN	
System 800xA – Life Cycle Parts Services	3BSE042708-EN	
Control Technologies – Preventive Maintenance Kits for System 800xA	3BSE065040D0011	

USB with configuration graphics



USB with configuration graphics

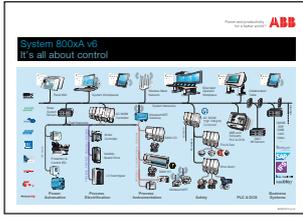
Customer material on USB media.

	Article no.	
BUCT Clipart USB 2014 Configuration graphics and ppt artwork for System 800xA (with High Integrity, Electrical Control System and Cyber Security), Freelance, Compact Products Suite, Advant Master and CT related clipart and Visio objects.	3BSE054491-EN	

Posters

Posters

Print on Demand. Delivery time up to 10 days.

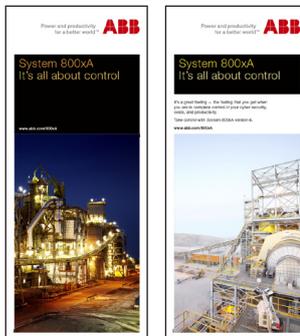


	Article no.
800xA Its all about control Configuration Poster 700 x 500 mm. Delivers in a paper tube.	3BSE045753-EN
800xA Electrical Control System Configuration Poster Poster 700 x 500 mm. Delivered in a paper tube.	3BSE063646-EN
800xA Cyber Security Configuration Poster Poster 700 x 500 mm. Delivered in a paper tube.	3BSE076592-EN

Roll Ups

Roll Ups

Portable, foldable exhibition display. Delivery time up to 10 days.



	Article no.
800xA v6 Industry, Level 1 850 x 2000 mm. Expolinc Compact. Delivered in a canvas bag.	3BSE079170-EN
800xA v6 Industry, Level 2 850 x 2000 mm. Expolinc Compact. Delivered in a canvas bag.	3BSE079171-EN
800xA v6 Offshore, Level 1 850 x 2000 mm. Expolinc Compact. Delivered in a canvas bag.	3BSE079200-EN
800xA v6 Offshore, Level 2 850 x 2000 mm. Expolinc Compact. Delivered in a canvas bag.	3BSE079201-EN
800xA v6 Mining, Level 1 850 x 2000 mm. Expolinc Compact. Delivered in a canvas bag.	3BSE079537-EN
800xA v6 Mining, Level 2 850 x 2000 mm. Expolinc Compact. Delivered in a canvas bag.	3BSE079533-EN
800xA Extended Automation EOW Picture, Level 2 850 x 2000 mm. Expolinc Compact. Delivered in a canvas bag. Revised 2014.	3BSE062963-EN
800xA v6 Operator Effectiveness, Level 1 850 x 2000 mm. Expolinc Compact. Delivered in a canvas bag.	3BSE079174-EN
800xA v6 Operator Effectiveness, Level 2 850 x 2000 mm. Expolinc Compact. Delivered in a canvas bag.	3BSE079175-EN
800xA Cyber Security, Level 1 850 x 2000 mm. Expolinc Compact. Delivered in a canvas bag. Revised 2014.	3BSE076250-EN
800xA Cyber Security, Level 2 850 x 2000 mm. Expolinc Compact. Delivered in a canvas bag. Revised 2014.	3BSE076251-EN
800xA Wireless, Level 1 850 x 2000 mm. Expolinc Compact. Delivered in a canvas bag.	3BSE079538-EN
800xA Wireless, Level 2 850 x 2000 mm. Expolinc Compact. Delivered in a canvas bag.	3BSE079518-EN

Roll Ups

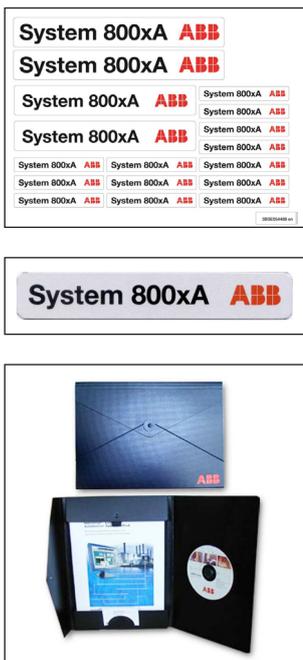
Portable, foldable exhibition display. Delivery time up to 10 days.



	Article no.
800xA 35 years in safety. Level 1 850 x 2000 mm. Expolinc Compact. Delivered in a canvas bag. Revised 2014.	3BSE057722-EN
800xA High Integrity SIL3., Level 1 850 x 2000 mm. Expolinc Compact. Delivered in a canvas bag. Revised 2014.	3BSE057723-EN
800xA Enterprise Asset Management, Level 1 850 x 2000 mm. Expolinc Compact. Delivered in a canvas bag. Revised 2014.	3BSE070955-EN
800xA Electrical Control System, Level 1 850 x 2000 mm. Expolinc Compact. Delivered in a canvas bag.	3BSE079176-EN
800xA Electrical Control System, Level 2 850 x 2000 mm. Expolinc Compact. Delivered in a canvas bag.	3BSE079177-EN
800xA Collaboration Table, Level 2 850 x 2000 mm. Expolinc Compact. Delivered in a canvas bag.	3BSE079520-EN
800xA Evolve your DCS investment to 800xA. Level 2 850 x 2000 mm. Expolinc Compact. Delivered in a canvas bag. Revised 2014.	3BSE067179-EN
800xA Networks, Level 1 850 x 2000 mm. Expolinc Compact. Delivered in a canvas bag.	3BSE081072-EN
800xA Networks, Level 2 850 x 2000 mm. Expolinc Compact. Delivered in a canvas bag.	3BSE081073-EN

Accessories

Accessories



	Article no.
System 800xA sticker kit With self-adhesive backside. 2 large, 2 medium and 13 small.	3BSE054488-EN
System 800xA – Aluminium sign 120 x 20 mm. With self-adhesive backside.	3BSE053648-EN
Black doc folder – Accessories Black cardboard box with ABB logo in right lower corner. Height 10 mm; for printed matters in A4 format, CD/DVD, small size giveaways etc. With business card holder.	3BSE051893-EN

Giveaways



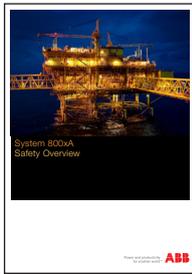
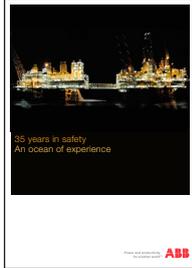
	Article no.	
<p>800xA mouse pad 240 x 195 mm 800xA mouse pad with the text “ 800xA, People, System & Equipment collaboration”. Full color print on thin plastic with anti-glide surface.</p>	3BSE072638-EN	
<p>800xA – Multi-Tool Stainless steel. Knife and other tools. Length 100 mm. Delivered in black canvas cover. Can be placed in a waist belt. Text: System 800xA.</p>	3BSE041996-EN	
<p>800xA, Ballpoint pen Black Pen in steel, delivered in transparent pen box. Text: System 800xA. With ABB logo.</p>	3BSE041998-EN	
<p>800xA Memory Stick 8GB Stainless steel and black plastic. Red ABB logo printed on and with the text “System 800xA” (in black) below. USB 2.0. Delivered in a small plastic box</p>	3BSE048610-EN	
<p>Plastic carry bag – Accessories White bag with red ABB logo.</p>	3BSE049373-EN	
<p>800xA Backpack Nice and comfortable backpack with many pockets. Text “System 800xA”. Size: 400 x 300 x 200 mm in grey, black and beige color.</p>	3BSE045360-EN	
<p>800xA Multi adapter for charging mobile devices A convenient 3 in 1 USB charger for iPhone 3/4 and 5, Blackberry, HTC, Samsung, and Sony. Suitable for transferring data. White color. Text: System 800xA.</p>	3BSE077546-EN	
<p>800xA Bluetooth mini speaker and radio A mini speaker with built-in Bluetooth with good sound quality and bass effect. Supports iPhone, iPad and other devices with Bluetooth functionality. Built-in Li-ion battery with micro USB interface. Black color, and with the text “ I want an xA”. White ABB logo printed on side. The Bluetooth speaker has FM radio function and a card reader function for micro SD (SD card is not included).</p>	3BSE077547-EN	
<p>800xA Power Bank – External Battery Charger Charge your mobile devices everywhere and anytime! A smart, small and flexible solution. Ideal for long flights and business trips. Works with multiple devices such as iPhone 4, iPhone 5, HTC, Nokia, Palm, LG and SONY, mp3/mp4 players and Bluetooth devices. Micro Input and USB Output. Easy to be recharged by normal computer, laptop, wall charger, car charger etc. With 2600 mA capacity. Measurements 94 x 22 x 21mm. Net weight 130g. With the xA factory symbol in white followed by the text “ I want an xA” on black plastic.</p>	3BSE077548-EN	
<p>800xA v6 Cleaning Cloth Colored front and white back-page. Delivered in a plastic envelope. Ideal for eyeglasses, mobile devices, computer screens, iPads and tablets. Size 150 x 150 mm.</p>	3BSE079409-EN	
<p>800xA v6 Soccer Foam Stress Ball Black and white with the 800xA v6 symbol on. Foam stress reliever, soft and nice. Size 60 mm high.</p>	3BSE080822-EN	
<p>800xA v6 Card Deck Custom back player cards in clear box containing 55 cards. Size Size 63 x 88 mm. Full color/ 1-location logo. ABB logo on and small text System 800xA. Will be delivered in a clear plastic box.</p>	3BSE080823-EN	

Safety – Marketing Materials

Marketing Materials

Orders greater than max quantity on request

Safety – Brochures

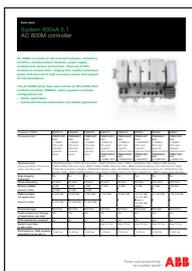
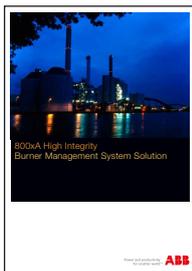


Brochures

Print on Demand. Delivery time up to 10 days.

	Article no.	
Safety, 35 years in safety. Revised 2014 6 pages brochure	3BSE055300-EN	
System 800xA Safety Overview Revised 2014. Rev E	3BSE038820-EN	
ABB - your partner in functional safety	3BUS094322-EN	
System 800xA - Safety Lifecycle Services	3BUS092094-EN	
Evergreen Safety Solutions	3AJE000124-139	
Independent High Integrity Safety System	3BUS095645	

Safety – Data Sheets

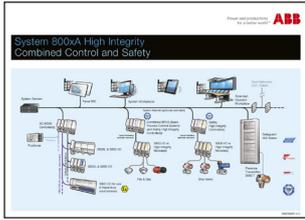


Data Sheets

Printed matters.

	Article no.	
800xA High Integrity - Burner Management System Solution Revised 2014 8 page brochure.	3BSE055219-EN	
800xA High Integrity - Emergency Shutdown Solution Revised 2014. 8 page brochure.	3BSE055220-EN	
800xA High Integrity - Fire & Gas Solution Revised 2014 8 page brochure.	3BSE055221-EN	
AC 800M Controller Data Sheet	3BSE063691-EN	

Safety – Posters

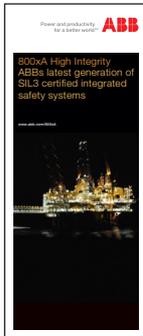
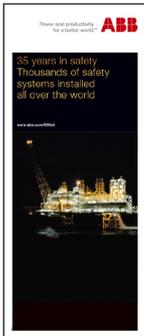


Posters

Printed matters.

	Article no.
System 800xA - High Integrity Configuration - Poster 500x700 mm Revised 2014. Delivers in a paper tube. Rev D	3BSE052805-EN

Safety – Roll Ups



Roll Ups

Portable, foldable exhibition display. Delivery time up to 10 days.

	Article no.
800xA - 35 years in safety , Level 1 Size 850 x 2000 mm Expolinc Compact. Delivered in a canvas bag. Revised 2014.	3BSE057722-EN
8800xA - High Integrity SIL 3 , Level 1 Size 850 x 2000 mm Expolinc Compact. Delivered in a canvas bag. Revised 2014.	3BSE057723-EN
Your trusted partner in safety , Level 1 Size 850 x 2000 mm Expolinc Compact. Delivered in a canvas bag.	3BSE081151-EN
ABB Safety Systems, Level 2 Size 850 x 2000 mm Expolinc Compact. Delivered in a canvas bag.	3BSE081152-EN
Independent High Integrity Safety, Level 2 Size 850 x 2000 mm Expolinc Compact. Delivered in a canvas bag.	3BSE081154-EN

Safety – Giveaways



Giveaways

	Article no.
ABB Safety Stress Ball -2009	3BSE058211-EN

Reference documentation

This document includes listings of the Release Notes and User Instructions applicable for 800xA 6.0 version. The listings include the title of the document and the corresponding document number. The documents are grouped by functional areas within the system and by Release Notes and User Instructions.

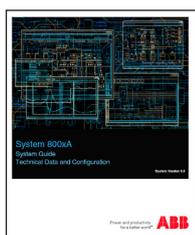
For more information about System 800xA please visit our web: www.abb.com/800xA



Release Notes

This table lists the Release Notes and applicable document numbers that are released for use with 800xA System 6.0

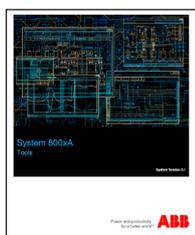
Functional Area		Document number.	
System 800xA	System 800xA 6.0 Release Notes New Functions and Known Problems	2PAA111899-600	
	System 800xA 6.0 Release Notes Resolved Issues	2PAA112277-600	



System Guides

This table lists the System Guides and applicable document numbers that are released for use with 800xA System 6.0

Functional Area		Document number.	
System 800xA	System 800xA 6.0 System Guide Technical Data and Configuration	3BSE041434-600	
	System 800xA Pre-installed Product Guide	3BSE042730-600	
	800xA 6.0 System Guide Summary	3BSE078159	



User Manuals

This table lists the User Manuals and associated document numbers that are released for use with 800xA System 6.0

Functional Area	Document title	Document number.	
System 800xA	System 800xA 6.0 Installation and Upgrade Getting Started	2PAA111708-600	
	System 800xA 6.0 Tools	2PAA101888-600	
	System 800xA 6.0 Configuration	3BDS011222-600	
	System 800xA 6.0 Network Configuration	3BSE034463-600	
	System 800xA 6.0 Manual Installation	2PAA112455-600	
	System 800xA 5.1 to 6.0 Upgrade	2PAA111694-600	

Reference documentation

Functional Area	Document title	Document number.	
System 800xA	System 800xA 5.0 SP2 to 6.0 Upgrade	2PAA111695-600	
	System 800xA 6.0 Multisystem Integration	3BSE037076-600	
	System 800xA 6.0 Administration and Security	3BSE037410-600	
	System 800xA 6.0 System Planning	3BSE041389-600	
	System 800xA 6.0 Maintenance	3BSE046784-600	
	System 800xA 6.0 Post Installation	2PAA111693-600	
	System 800xA 6.0 Virtualization	3BSE056141-600	
	System 800xA 6.0 Licensing Information	2PAA111691-600	
	System 800xA PC, Network and Software Monitoring	System 800xA 6.0 PC, Network, and Software Monitoring Operation	3BUA000446-600
		System 800xA 6.0 PC, Network, and Software Monitoring Configuration	3BUA000447-600
System 800xA PLC Connect	System 800xA 6.0 PLC Connect Operation	3BSE035040-600	
	System 800xA 6.0 PLC Connect Configuration	3BSE035041-600	
Asset Optimization	System 800xA Asset Optimization 6.0 Operation	3BUA000150-600	
	System 800xA Asset Optimization 6.0 Configuration	3BUA000118-600	
AC 800M	6.0 AC 800M DriveBus	2PAA113566-600	
	AC 800M 6.0 FOUNDATION Fieldbus HSE	3BDD012903-600	
	AC 800M 6.0 PROFIBUS DP Installation	3BDS009029-600	
	AC 800M 6.0 PROFIBUS DP Configuration	3BDS009030-600	
	AC 800M 6.0 Communication Protocols	3BSE035982-600	
	AC 800M 6.0 OPC Server	3BSE035983-600	
	AC 800M 6.0 Controller Hardware	3BSE036351-600	
	AC 800M 6.0 Interfacing SATT IO	3BSE042821-600	
	AC800M 6.0 Library Object Style Guide	3BSE042835-600	

Reference documentation

Functional Area	Document title	Document number.
AC 800M (Continued)	AC 800M 6.0 IEC 61850 Configuration for CI868	9ARD171385-600
	AC 800M 6.0 PROFINET IO Configuration	3BDS021515-600
	AC 800M 6.0 Ethernet/IP DeviceNet Configuration	9ARD000014-600
	AC 800M 6.0 Ethernet/IP DeviceNet Installation	9ARD000015-600
	AC 800M 5.1 Ethernet/IP DeviceNet Linking Device LD 800DN	3BSE059754R0001
	AC 800M 6.0 Controller Hardware Product Guide	3BSE036352-600
	Control	System 800xA Control 6.0 AC 800M Configuration
System 800xA Control 6.0 AC 800M Binary and Analog Handling		3BSE035981-600
System 800xA Control 6.0 AC 800M Getting Started		3BSE041880-600
System 800xA Control 6.0 AC 800M Planning		3BSE043732-600
Advant Fieldbus 100 User Manual		3BSE000506-600
Compact Control Builder AC 800M 6.0 Getting Started		3BSE041584-600
Compact Control Builder AC 800M 6.0 Configuration		3BSE040935-600
Compact Control Builder AC 800M 6.0 Planning		3BSE044222-600
Compact Control Builder AC 800M 6.0 Binary and Analog Handling		3BSE041488-600
Compact Control Builder AC 800M 6.0 Product Guide		3BSE041586-600

Reference documentation

Functional Area	Document title	Document number.	
Device Management	System 800xA 6.0 Device Management Device Library Wizard	2PAA102573-600	
	System 800xA Device Management 6.0 FOUNDATION Fieldbus Configuration	3BDD012902-600	
	System 800xA 6.0 Device Management PROFIBUS and HART Configuration	3BDD011934-600	
	Device Management Basic PROFIBUS DTM	3BDD011938-600	
	Device Management Basic HART DTM	3BDD011939-600	
	Device Management PROFIBUS DTM Installation	3BDD011941-600	
	Device Management HART DTM Installation	3BDD011942-600	
	Field IT Linking Device Integration Pepperl Fuchs Power Hub	2PAA102122R0201	
	Device Management PROFIBUS DP FMS Redundancy Link Module RLM01	3BDD011600R0601	
	Device Management FOUNDATION Fieldbus Linking Device LD 800HSE 3.6.0	3BDD011677-600	
	Device Management PROFIBUS DTM Builder	3BDD011945-600	
	Device Management HART DTM Builder	3BDD011946-600	
	System 800xA Engineering	System 800xA Engineering 6.0 Engineering Studio	3BDS011223-600
		System 800xA Engineering 6.0 Engineering Studio Function Designer	3BDS011224-600
		System 800xA Engineering 6.0 Engineering Studio Function Designer Getting Started	3BDS100968-600
System 800xA Engineering 6.0 Application Change Management		2PAA108438-600	
System 800xA Engineering 6.0 Engineering and Production Environments		3BSE045030-600	
System 800xA Engineering 6.0 Engineering Studio Topology Designer		3BDS011225-600	
System 800xA Engineering 6.0 Process Engineering Tool Integration		3BUA000184-600	
System 800xA Engineering 6.0 Process Graphics		3BSE049230-600	
System 800xA 6.0 .NET Aspects Programmers Guide		2PAA107043-600	

Reference documentation

Functional Area	Document title	Document number.
IEC 61850	System 800xA 6.0 IEC 61850 Engineering Workflow	9ARD171384-600
	System 800xA 6.0 IEC 61850 Connect Configuration	9ARD171387-600
	System 800xA 6.0 IEC 61850 Operation Library Substation Equipment	2PAA108626-600
System 800xA Information Management	System 800xA Information Management 6.0 Getting Started	3BUF001091-600
	System 800xA Information Management 6.0 Configuration	3BUF001092-600
	System 800xA Information Management 6.0 Display Services	3BUF001093-600
	System 800xA Information Management 6.0 Data Access and Reports	3BUF001094-600
	System 800xA Information Management 6.0 Profile Historian Operation	3BUF001121-600
	System 800xA Information Management 6.0 Enterprise Historian Migration	3BUF001150-600
	System 800xA Information Management 6.0 Technical Support Reference	3BUF001147-600
I/O	S900 I/O Manual DTM 6.x	3BDD010407-600
	S900 I/O S- and N-System with SA920 Installation	3BDD010421R0401
	S900 I/O Digital I/O Modules DO910 and DX910	3BDD010423R0601
	S900 I/O Frequency Input/ Pulse Counter DP910	3BDD010424R0601
	S900 I/O Temperature Input Module AI950	3BDD010426R0601
	S900 I/O B-System with SA920 Installation	3BDD010432R0401
	S900 I/O Manual Communication Interface for PROFIBUS DP CI920A V2.1	2PAA107375
	S900 I/O Manual Installation-Guide S-N-System SA920 CI920A	3BDD010421R0601
	S900 I/O PROFIBUS DP Communication Interface, CI920 1.5	3BDD015031R0101
	S900 I/O Digital I/O Relay Module DO930N	3BDD010435R0601
	S900 I/O Analog I/O Modules (HART) AI930, AI931, AO930	3BDD010425R0601

Reference documentation

Functional Area	Document title	Document number.	
I/O (Continued)	S900 I/O Manual Installation-Guide B-System SA920 CI920A	3BDD010432R0601	
	S800 I/O Getting Started	3BSE020923-600	
	S800 I/O Modules and Termination Units	3BSE020924-600	
	S800 I/O Fieldbus Communication Interface for PROFIBUS DP/DPV1	3BSE020926-600	
	S800 I/O DTM 6.0	3BSE027630-600	
	S200 I/O Hardware	3BSE021356-600	
	S200L I/O Hardware	3BSE021357-600	
	S800 I/O Product Guide	3BSE015969-600	
	S800 I/O CI801 Memory Maps	3BSE036959-600	
	S800 I/O CI840 Memory Maps	3BSE025251-600	
	S800 I/O Modules and Termination Units with Intrinsic Safety Interface	3BSE020927-600	
	System 800xA Operations	System 800xA Operations 6.0 Operator Workplace Configuration	3BSE030322-600
		System 800xA Operations 6.0	3BSE036904-600
System 800xA 6.0 Snapshot Reports User Guide		3BSE060242-600	
VideoNet Connect for 800xA User Manual		2PAA109407-600	
System 800xA Operations Operator Workplace Support for Mobile Devices		2PAA110154-600	
System 800xA 6.0 ABB System Extension Configuration and Packager Tool		2PAA111022-600	
System 800xA Batch Management		System 800xA Batch Management 6.0 Operation	3BUA000145-600
	System 800xA Batch Management 6.0 Configuration	3BUA000146-600	
800xA for AC 100	AC 100 OPC Server 6.0 Installation	3BSE077523-600	
	System 800xA for AC 100 6.0 Aspect Object Types	3BDS013986-600	
	800xA for AC 100 6.0 Configuration and Operation	3BDS013989-600	
	AC 100 OPC Server 6.0 Configuration and Operation	3BDS013988-600	
	AC 100 OPC Server 6.0 Product Guide	3BSE078405-600	

Reference documentation

Functional Area	Document title	Document number.
800xA for Advant Master	800xA for Advant Master 6.0 Extended Graphic Library	3BSE026427-600
	800xA for Advant Master 6.0 Configuration	3BSE030340-600
	800xA for Advant Master 6.0 Operation	3BSE030352-600
	800xA for Advant Master 6.0 Graphic Library	3BSE030430-600
800xA for DCI	800xA for DCI 6.0 Operation	3BUA000129-600
	800xA for DCI 6.0 Configuration	3BUA000135-600
800xA for Harmony	800xA for Harmony 6.0 Configuration	3BUA000157-600
	800xA for Harmony 6.0 Operation	3BUA000158-600
800xA for AC 870P/Melody	System 800xA for AC870P/ Melody 6.0 Configuration	3BDD011741-600
	System 800xA for AC870P/ Melody 6.0 Asset Management for HART Devices Configuration	2VAA000938-600
800xA for MOD 300	800xA for MOD 300 6.0 Configuration	3BUR002417-600
	800xA for MOD 300 6.0 Operation	3BUR002418-600
800xA for Safeguard	800xA for Safeguard 6.0 Configuration	3BNP004848-600
	800xA for Safeguard 6.0 Operation	3BNP004849-600
	800xA for Safeguard 6.0 Graphic Library	3BSE044423-600
800xA for TRIO/Genius	800xA for TRIO/Genius 6.0 Getting Started	3BUR002459-600
	800xA for TRIO/Genius 6.0	3BUR002460-600
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