SIEMENS





• Freely programmable modular automation stations for HVAC and building services plants.

- Native BACnet automation station with communications BACnet via LonTalk, PTP or Ethernet / IP
- BTL label (BACnet communications is BTL tested)
- High performance and reliable operation
- Comprehensive management and system functions (alarm management, time schedules, trends, remote management, access protection, etc.)
- The integrated web server allows for generic or graphical web operation as well as sending alarms via SMS or email
- Island bus to connect external TX-I/O modules with any data point mix
- For stand-alone applications, or for use within a device or system network
- Supports the following operating elements:
 - local / network capable operator units PXM...
 - PX-WEB (PXC...-E.D only)

operation via web browser, touch panel or PDA

• System controller for integration of Desigo RXC and LONMARK® compatible 3rd party devices

PXA40-...

for connection of TX-I/O-modules via island bus, PTM-I/O modules and for integration of Desigo RXC and LONMARK compatible 3rd party devices

	Up to 52 /200	Up to 200	Over 200
	data points **)	data points *)	data points *)
Automation station BACnet / LonTalk	PXC50.D	PXC100.D	PXC200.D
Automation station BACnet / IP	PXC50-E.D	PXC100-E.D	PXC200-E.D

*) Note "Data points" include physical inputs / outputs via TX-I/O as well as TX OPEN points.

**) Note Max. number of IO via TX-IO and TX-OPEN: 200; Max. number of IO via TX-IO: 52

Compatibility with automation stations

TX-I/O devices

	Туре	Data sheet
Digital input module 8 or 16 I/O points	TXM1.8D, TXM1.16D	CM2N8172
Universal module without / with local operation and LCD	TXM1.8U, TXM1.8U-ML	CM2N8173
Super universal mod. without / with local operation and LCD	TXM1.8X, TXM1.8X-ML	CM2N8174
Relay module without / with local operation	TXM1.6R, TXM1.6R-M	CM2N8175
Resistance measuring module (for Pt100 4-wire)	TXM1.8P	CM2N8176
Relay module bistable	TXM1.6RL	CM2N8177
Triac module	TXM1.8T	CM2N8179
Power supply module 1.2 A, Fused 10A	TXS1.12F10	CM2N8183
Bus interface module, Fused 10A	TXS1.EF10	CM2N8183
Island bus expansion module	TXA1.IBE	CM2N8184
TX OPEN module	TXI1.OPEN	CM1N8185

Extension module P-Bus

for integration of existing PTM I/O modules (together with PXC50...D, PXC100...D or PXC200...D)

Туре	Data sheet
PXX-PBUS	CM1N9283

Note One supply module TXS1.12F10 is required as bus supply for the P-bus for each P-bus strand. A TXS1.12F10 can supply max. 64 load units (1 LU = 12.5 mA, DC 24 V)

Extension modules LONWORKS

for integration of Desigo RXC and LONMARK compatible 3rd party devices (together with PXC....D)

	Туре	Data sheet
Integration of max. 60 devices	PXX-L11	CM1N9282
Integration of max. 120 devices	PXX-L12	

Number of RXC that can be connected:

Desigo version	≥ V5	≥ V5	≥ V5
Туре	PXC50.D,	PXC100.D,	PXC200.D,
	PXC50-E.D	PXC100-E.D	PXC200-E.D
Number of RXC with PXX-L11	10	60 *)	60 *)
Number of RXC with PXX-L12	10	120 *)	120 *)

*) A high number of RXC reduces the performance of the PXC for connected TX-I/O or PTM-I/O data points respectively.

Type summary System controllers

for integration via extension modules PXX-Lx

System controller BACnet / LonTalk	PXC00.D
System controller BACnet / IP	PXC00-E.D

Compatibility with system controllers

Extension module LONWORKS

for integration of Desigo RXC and LonMark compatible 3rd party devices (together with PXC00.D and PXC00-E.D)

	Туре	Data sheet
Integration of max. 60 devices	PXX-L11	CM1N9282
Integration of max. 120 devices	PXX-L12	

Option module for Automation stations and system controllers PXC00/50/100/200.D (*BACnet/LonTalk*)

The option module can be mounted in place of the front cover.

Module PXA40	Т
Interfaces	
USB Host (for modem via PXA-C3)	X
Network functions	
PTP Dial-in XWP (modem) ¹⁾	X

¹⁾ The modem connection can be configured as follows:

- either for Remote Engineering (XWP).
- or for Remote Management (Desigo Insight)

Option module for Automation stations and system controllers PXC00/50/100/200-E.D (*BACnet/IP*)

The option module can be mounted in place of the front cover.

	Module PXA40	W0	W1	W2	Т
	Interfaces				
	Ethernet RJ45	Х	X	Х	
	USB Host (für Modem via PXA-C3)	Х	X	X	X
	Remote management				
	PTP Dial-in Desigo INSIGHT (Modem) ¹⁾	X	X	X	X
	PPP via Ethernet RJ45 ¹⁾	Х	Х	Х	
	Web functions				
	Generic Web functions	X ²⁾	X	Х	
	Graphic Web functions	X ²⁾		X	
	Send alarms via SMS (Modem)	Х	X	Х	
	Send alarms via E-Mail (RJ45)	X	X	X	
	 ²⁾ The modem connection can be configure either for Remote Engineering (XWP) or for Remote Management PX WEB ³⁾ Web functions for the own automation st 	generic / g	raphical a	nd alarmin	g with SMS.
Option modules are "hot- pluggable"	PXA40 option modules can be plugged a station is operating. – The functionality is available immediately			the auton	nation

- The functionality disappears approx.1 minute after unplugging.

	Туре	Data sheet
Local operating unit	PXM10	CM1N9230
Operating unit	PXM20	CA1N9231
Operating unit for Ethernet	PXM20-E	CM1N9234
Connection cable (to connect to operator units PXM10 or PXM20 and to download firmware)	PXA-C1	

Automation station functions

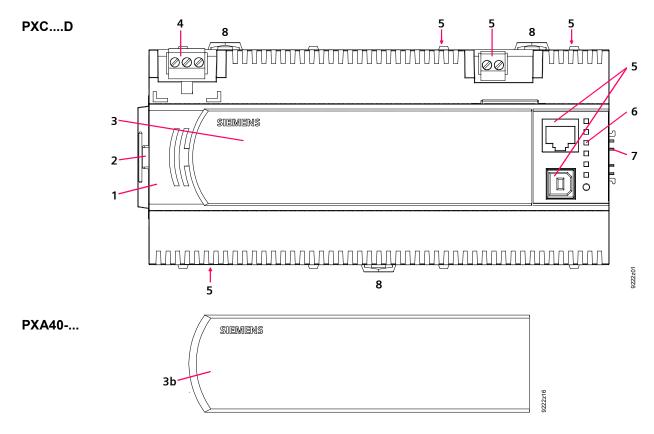
		 These freely programmable automation stations provide the infrastructure for the provision and processing of system-specific and application-specific functions. In addition to the control functions, the automation station also incorporates convenient integrated management functions such as: Alarm management with alarm routing throughout the network. Management of simple, basic and extended alarms, with safe transfer tracking and automatic monitoring of alarm transmission Time schedules Trend Remote management function Access protection throughout the network, with individually definable user profiles and categories
Programming I	language	The automation stations are freely programmable in D-MAP programming language. This involves the creation of plant operating programs through graphics-based interconnection of function blocks and compounds held in libraries.
Communicatio	n	
BACnet/II (PXCE		Communication is via Ethernet with the internationally standardized BACnet protocol. Both peer-to-peer communications with other automation stations and connection to the PXM20-E operator units are supported.
BACnet/L (PXCD		The devices communicate via an open LonTalk system in accordance with the international standard BACnet protocol. Both peer-to-peer communications with other automation stations and connections to the PXM20 operator units are supported.
BACnet/F (with optic PXA40)	on module	The devices communicate via the public telephone network in accordance with the international standard BACnet protocol.

There are various options for the operation of the PXC automation stations:

- Local PXM10 operator unit, connected via a PXA-C1 cable
- Network-compatible PXM20 operator unit (BACnet/LonTalk) for operation of the local automation station or an automation station in a network, connected via PXA-C1 cable
- Network capable operator unit PXM20-E (BACnet / IP) to operate an automation station in the network, connected to an Ethernet hub or switch
- **PX-WEB:** Optional web server via PXA40-W... option module. Allows operation with a web browser, a touch panel or a PDA. The transfer of alarms via SMS or e-mail can be configured in the automation station.

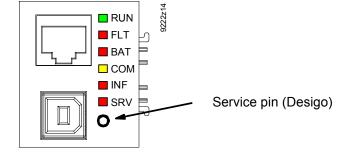
Mechanical design

The compact construction enables the automation stations to be mounted on a standard mounting rail.



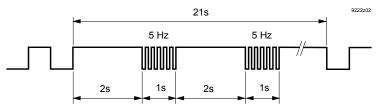
1	Plastic housing
2	Cover to interface for extension module
3a	Front cover
3b	PXM40 option module
4	Plug-in terminal block with screw terminals (operating voltage)
5	Interface for network, operator units, tool, etc.
6	LED display for devices and system status
7	Island bus connector (not on PXC00)
8	Slider for mounting on DIN rail

LED indicators



LED	Color	Activity	Function	
RUN	Green	Continuously ON	Power OK	
		Continuously OFF	No power	
FLT	Red	Continuously OFF	OK	
		Continuously ON	Fault	
		Rapid flashing	Firmware missing / corrupt	
BAT	Red	Continuously OFF	Battery OK	
		Continuously ON	Battery empty- replace!	
COM	Yello	Continuously ON	Connection to switch OK	
	w	Continuously OFF	No connection to switch	
		Flashing	Communication	
INF	Red		Freely programmable	
SRV	Red	Continuously OFF	ОК	
(Ethernet)		Continuously ON	No connection to switch or	
			DHCP Server	
		Flashing	No IP address configured	
		Flashing per wink	Physical identification of automation	
		command *)	station after receipt of wink command	
SRV	Red	Continuously OFF	LONWORKS node is configured	
(LonWorks		Continuously ON	Faulty LONWORKS chip, or service pin	
Bus)			currently depressed	
		Flashing	LONWORKS node is not configured	
		Flashing per wink command *)	Physical identification of automation station after receipt of wink command	

*) Wink command pattern:



Mounting instructions

The automation stations can be snapped onto standardized rails.

The power supply connection and the room devices have plug-in screw terminal blocks. The other interfaces are quick plug-in connections.

Instead of the front cover a PXA40... option module can be fitted on the modular automation station.

	In order to prevent equipment damage and/or personal injuries always follow local safety regulations and the required safety standards.			
Load plant operating program	The plant operating program is downloaded using the CFC from XWP – locally via the automation station's RJ45 interface or via the network (BACnet/IP or BACnet/LonTalk).			
Setting parameters and configurations	Use the PX Design tool in XWP for setting the control parameters and the configuration data. Data visible on the network may also be edited with an operator unit PXM20 / PXM20-E (BACnet / LonTalk or BACnet / IP). Part of the data can also be edited locally using the operator unit PXM10.			
Wiring test	Use the Point Test Tool.			
Network connection	The network addresses are configured with XWP. For unique identification in the network (BACnet/IP or BACnet/LonTalk), press the Service button with a long, pointed object or send a wink command to the appropriate automation station (service LED blinks).			
Force Firmware Download	 Variant via V24: If the Force Firmware Download Key is pressed during a restart (reset), the current D-MAP program is deleted from the FLASH. The automation station waits briefly for the signal to activate the FWLoader and then starts the automation station. IP variant: (for PXCE.D, significantly faster than via V24) Press the Force Firmware Download key for 5 seconds (without hitting the reset button). Prerequisite: The automation station has conducted a node setup and no application is loaded or was deleted in the CFC by clear/reset (communication settings remain – which would not be the case when restart erasing by pressing the reset key). 			
5 4 4	For details see the Firmware Download Tool User's guide, CM110626.			
Restart	Press the Reset button to force a restart			
Position of buttons and batteries				
	Alkaline AA Lithium type CR2032 Service pin Series B and later: Lithium type FR6/AA			
Device events	The neuron curply of the outemption station must be quitebod as and off			

Power supply

The power supply of the automation station must be switched on and off simultaneously with the power supply of the TX-I/O modules. Otherwise, unwanted alarms will be generated.

Maintenance

			10 years 10 years	
	The trend data and the actua battery-backed (type AA). • Lithium Type FR6/AA: • Alkaline:	Jal parameters stored in the SDRAM memory are Devices series B and later Devices series A		
	15 hrs (Lithium) or several	at ¹⁾ the remaining days (Alkaline). AT" LED lights up	life span under load is approx. when one of the batteries' charge	
Replacing the battery	To change the battery remove the front cover. The battery can be removed indefinitely as long as the unit has power.			
(STOP) Caution	 Devices series A: Do not replace the Alkaline battery with an Lithium battery. Note the special disposal notes on Li batteries. A wrist-strap and grounding cable must be used to avoid hardware damage through electrostatic discharge (ESD). 			
Firmware upgrades		nware and operating system stored in non-volatile Flash ROM. Flash ROM mory can be easily updated on the plant, when a new firmware version is ilable.		

Disposal



The devices are classified as waste electronic equipment in terms of the European Directive2012/19/EU (WEEE) and should not be disposed of as unsorted municipal waste.

The relevant national legal rules are to be adhered to.

Regarding disposal, use the systems setup for collecting electronic waste. Observe all local and applicable laws.

Lithium batteries: May catch fire, explode or leak. Do not short circuit, charge, disassemble, dispose of in fire, heat above 100 °C, or expose to water. Disposal: Seal battery terminals with tape.

Technical data

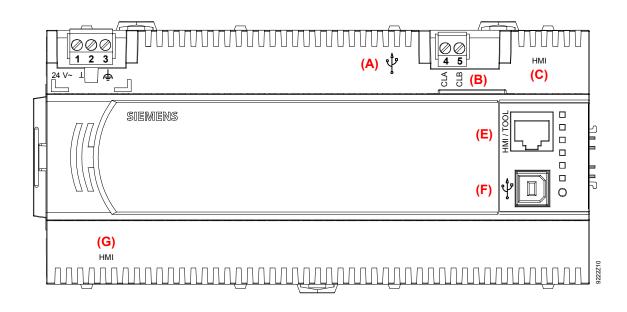
General device data	Operating voltage	AC 24 V \pm 20% (SELV / PELV) or	
	Safety extra-low voltage SELV or Extra-low voltage PELV	AC 24 V class 2 (US) HD 384	
	Operating frequency	50/60 Hz	
	Energy consumption	Max. 24 VA (same for all types)	
	Internal fuse	5 A	
Operating data	Processor	Motorola Power PC MPC885	
	Storage	64MB SDRAM / 32MB FLASH (96MB total)	
	Accuracy class	0.5	
	Data backup in event of power failure		
	Battery Backup of realtime clock	Battery operation (cumulative): 10 years	
	Lithium type CR2032 (field replaceable) Battery Backup of SDRAM 1x AA:	Without load: 10 years Battery operation (cumulative): min. 2 week	
	(field replaceable)		
	 Lithium Type FR6/AA: Devices series B and later 	Without load: Lithium 10 years	
	Alkaline: Devices series B	Alkaline 4 years	
		,	
Communication interfaces	PXC D	PXC -E.D	
Building Level Network	LONWORKS FTT Transceiver (screw terminals (B))	10 Base-T / 100 Base-TX IEEE802.3, Auto-sensing (RJ45 (D))	
Local communication (HMI) (RJ45 (C))	PXM20 (BACnet/LonTalk) *)		
Local communication	PXM10 (serial)	-	
(HMI, Tool) (RJ45 (E))	 PXM20 (BACnet/LonTalk) *) 		
	FW Download Tool		
	Connection cable max. 3 meters		
Local communication (HMI) (RJ45 (G))	ocal communication • PXM10 (serial) • PXM10 (serial)		
USB host interface	RS232 modem (via USB-RS232	RS232 modem (via USB-RS232	
(Modem)	adapter cable PXA-C3)	adapter cable PXA-C3)	
USB device interface	(for future applications)	(for future applications)	
Ethernet interface			
Interface type		100BaseTX, IEEE 802.3 compatible	
Bit rate		10 / 100 MBit/s, autosensing	
Protocol		BACnet on UDP/IP	
Pin		RJ45 socket, screened	
LONWORKS bus interface		· · · · · · · · · · · · · · · · · · ·	
Network	TP/FT-10		
Baud rate	78 kBit/s		
Protocol	BACnet		
Interface chip	Echelon Processor TMPN3150B1AF		
•		· · · · · · · · · · · · · · · · · · ·	
Island bus interface (CD, C	5)		

*) only ONE PXM20 per automation station

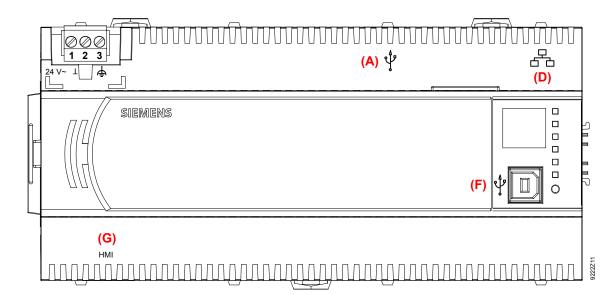
Simple cable lengths, cable types (see installation Guide Connection cable Ethernet and PXM20-E Cable type Max. 100 million CaT5 Standard at least CAT5 UTP (Unshelded Twisted Pair) or STP (Shelded Twisted Pair) or STP (Shelded Twisted Pair) See Installation Guide CA110396 CA15 PX, CA110396) Connection cable LoNWORKS bus Cable type See Installation Guide CA110396 CAT5 Connection cable for island Protection class III to EN 60529 Protection class III to EN 60730-1 Ambient conditions Normal operation Environmental conditions Class 3K6 Cable syse Transport To IEC 60721-3-3 Class 3K2 Transport To IEC 60721-3-2 Environmental conditions Transport To IEC 60721-3-2 Environmental conditions Transport To IEC 60721-3-2 Environmental conditions Class 2M2 Transport To IEC 60721-3-2 Environmental conditions Class 2M2 Standards, guidelines and approvals Product standard EN 60730-1 Automatic electrical controls for household and similar use Product family standard EN 50491-x General requirements for Home and Building Automation and Control Systems (IBACS) Electromagnetic compatibility (Applications) For use in residential, commerce, light-industrial and industrial environments Electromagnetic compatibility (Applications) Class B BACnet 2011 en, V1.1 of AMEV Supports profiles AS-A and AS-B as BACnet 2011 en, V1.1 of AMEV Supports pro	Plug-in screw terminal	Power supply, bus, sign	als	Solid or stranded conductors 0.252.5 mm2 or 2 x 1.5 mm2	
Connection cable LonWorks bus Cable type Connection cable PXM10 See CM110562 Protection data Protection class for island bus Protection class III to EN 60730-1 Ambient conditions Normal operation Environmental conditions Transport Transport Environmental conditions Class 3M2 Transport Environmental conditions Class 2M2 Transport Environmental conditions Class 2M2 To IEC 60721-3-3 Class 3M2 Transport Class 2M2 To IEC 60721-3-2 Class 2M2 Connection contents Class 2M2 To IEC 60721-3-2 Class 2M2 To IEC 60721-3-2 Class 2M2 To IEC 60721-3-2 Class 2M2 Product standard EN 60730-1 Automatic electrical controls for household and similar use Product family standard EN 60491-x General requirements for Home and Building Automation and Control Systems (BACS) Electromagnetic compatibility (Applications) For use in residential, commerce, light-industrial and industrial environments EU conformity (CE) UL certification (US) UL certification (Contains CM1E9222 °) data on R0HS compliance, materials compo- sition, packaging, environmental benefit, disposal) Dimensions Weight Excluding packaging	types (see Installation Guide			Max. 100 m Standard at least CAT5 UTP (Unshielded Twisted Pair)	
Connection cables for island bus See CM110562 Protection data Housing protection standard Protection class III to EN 60730-1 Ambient conditions Normal operation Environmental conditions Temperature To IEC 60721-3-3 Class 3K5 Ambient conditions Class 3K2 Transport To IEC 60721-3-2 Environmental conditions Class 3M2 Transport To IEC 60721-3-2 Environmental conditions Class 2M3 Transport To IEC 60721-3-2 Environmental conditions Class 2M3 Transport To IEC 60721-3-2 Environmental conditions Class 2M3 Transport To IEC 60721-1 Automatic electrical controls for household and similar use Product standard EN 50491-x Product family standard EN 50491-x Electromagnetic compatibility (Applications) For use in residential, commerce, light-industrial and industrial environments Electromagnetic controlity (CE) CM119222ar, °1 UL certification (US) UL864, UL916 http://database.ul.com/ FCC CFR 47 Patients Class B Conformity CMEV guide		Cable type		See Installation Guide CA110396 CAT5	
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approvals household and similar use Product family standard EN 50491-x General requirements for Home and Building Electronic Systems (HBES) and Building Automation and Control Systems (BACS) Electromagnetic compatibility (Applications) For use in residential, commerce, light-industrial and industrial environments EU conformity (CE) CM1T9222xx *) UL certification (US) UL864, UL916 http://database.ul.com/ FCC CFR 47 Part 15 Class B RCM-conformity (EMC) CM1T9222en_C1 *) EAC conformity Eurasia conformity MEV: Supports profiles AS-A and AS-B as of AMEV' guideline "BACnet in public buildings" BACnet 2011 en, V1.1 of AMEV guideline "BACnet in public buildings" Environmental compatibility Product environmental declaration (contains CM1E9222 *) data on RoHS compliance, materials compo- sition, packaging, environmental benefit, disposal) See "Dimensions" Dimensions See "Dimensions" Excluding packaging With packaging	Ambient conditions	Environmental condi Temperature Humidity Mechanical conditior Transport Environmental condi Temperature Humidity	is tions	Class 3K5 050 °C 595 % r.h. (non-condensing) Class 3M2 To IEC 60721-3-2 Class 2K3 -2570 °C 595 % r.h. (non-condensing)	
light-industrial and industrial environments EU conformity (CE) CM1T9222xx *) UL certification (US) UL864, UL916 http://database.ul.com/ FCC CFR 47 Part 15 Class B RCM-conformity (EMC) CM1T9222en_C1 *) EAC conformity Eurasia conformity AMEV: Supports profiles AS-A and AS-B as of AMEV guideline "BACnet in public buildings" Environmental compatibility Product environmental declaration (contains CM1E9222 *) data on RoHS compliance, materials composition, packaging, environmental benefit, disposal) Dimensions See "Dimensions" Weight Excluding packaging With packaging				household and similar use General requirements for Home and Building Electronic Systems (HBES) and Building Automation and Control	
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Weight Excluding packaging With packaging	Environmental compatibility	data on RoHS complian sition, packaging, enviro	ce, materials compo		
• • • • • • • • •	Dimensions	See "Dimensions"			
	Weight	All types			

*) The documents can be downloaded from <u>http://siemens.com/bt/download</u>.

PXC....D



PXC...-E.D



1, 2	24 V ~, ⊥	Operating voltage AC 24 V		
3	Ψ <u></u>	Functional ground	Plug-in screw terminal block	
(A)	\sim	USB host interface (for modem via PXA-C3 adapter cable)		
4,5 (B)	CLA, CLB	LONWORKS bus Plug-in screw terminal blocks		
(C)	HMI	RJ45 interface (LONWORKS) for operator unit PXM20 (tool as well)		
(D)		RJ45 interface for Ethernet		
		(Operator unit PXM20-E can be connected to hub/switch)		
(E)	HMI / Tool	RJ45 interface (LONWORKS and serial) for PXM10, PXM20 and tool		
(F)	∼ Ca	USB device interface (for future applications)		
(G)	HMI	RJ45 interface (serial) for operator unit PXM10		

Plug (C)		Pin description	Pin description			
"HMI" (LonWorks)	87654321	 LONWORKS Data A (CLA LONWORKS Data B (CLB G0 / GND G / Plus 				
Plug (D)	RJ45 socket screened, standard connection in accordance with AT&T256					
占		1. Tx+ 2. Tx – 3. Rx + 4. Unused	5. Unused 6. Rx – 7. Unused 8. Unused			
Plug (E) "HMI / Tool" (LonWorks and serial)		 LONWORKS Data A (CLA) LONWORKS Data B (CLB) GND +24 V max. 300 mA (PXM20) 				
Plug (G) "HMI" (serial)	87654321	 unused unused G0 / GND G / Plus 	 5. Unused 6. *) 7. COM1/TxD 8. COM1/RxD 			
	*) 6 Unused Connecte	(PXCD) d to pin 8 (PXCE.D)				

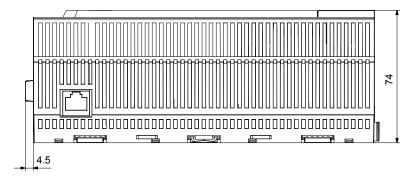
Connection diagrams

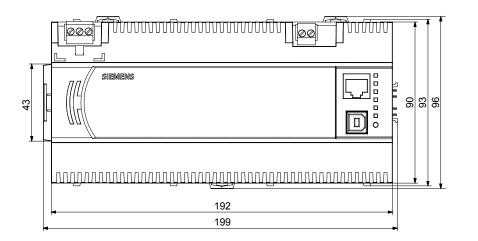
Connecting TX-I/O modules and field devices See Planning and Installation Guide TX-I/O, CM110562.

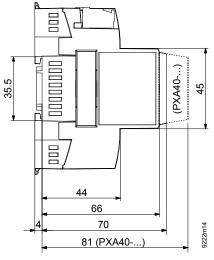
Dimensions

All dimensions in mm

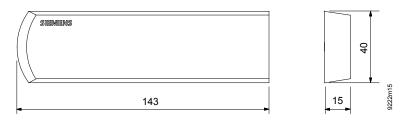
Automation stations, system controllers PXC....D







Option modules PXA40-...



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Delivery and technical specifications subject to change