SIEMENS

Climatix™

Communication module BACnet IP

POL908.00/xxx

Communication module to connect a Climatix POL6xx.xx controller to a BACnet IP network

- Integration into a building automation and control system via BACnet IP
- Client communication to other BACnet devices
- The module must be connected to the left side of a POL6xx.xx controller
- Preloaded generic BACnet server
- Supports BACnet/IP (B-BC profile and BBMD)
- Network parameters configurable via controller, HMI or SCOPE tool
- The POL908.00/xxx communication module is part of the Climatix product range. Refer also to Data sheet Q3900, Mounting instructions M3910 and BACnet PICS document P3939en

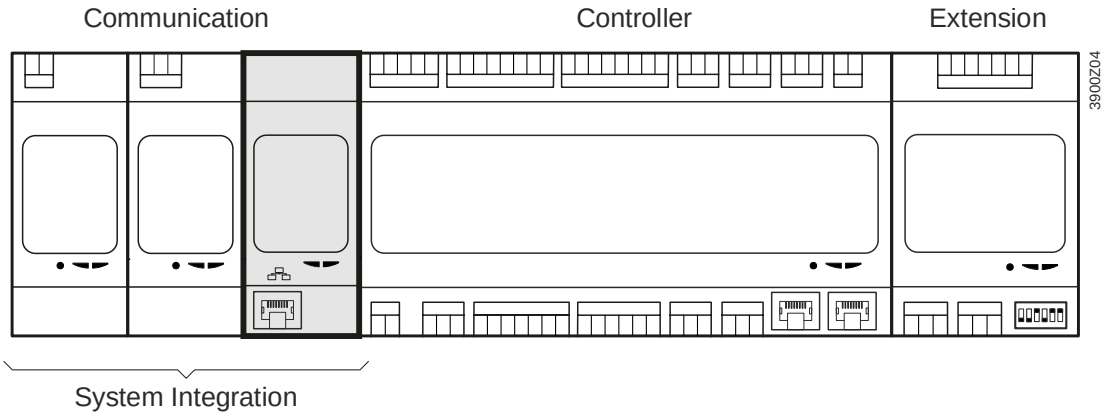
Technology

BACnet / IP protocol

BACnet, an ASHRAE building automation and control networking protocol, was designed specifically to meet the communication needs of building automation and control systems for applications such as heating, ventilation, and air conditioning control, lighting control, access control, and fire detection systems and their associated equipment.

The BACnet protocol provides mechanisms by which computerized building automation devices can exchange information, regardless of the particular building service they perform. As a result, the BACnet protocol may be used by head-end workstations, general-purpose direct digital controllers, and application-specific or unitary controllers with equal effect.

Installation concept



Technical data

General Data	
Dimensions (w x h x d)	45 x 110 x 75 mm
Materials and Colors	• Base: Plastic, pigeon-blue RAL 5014 • Housing: Plastic, light-grey RAL 7035
Weight excl. packaging	97g

Power supply	
Power supply	Via system interface from controller DC 5 V (± 5 %), max. 270 mA

Interface		
BACnet IP	Type	Ethernet 10/100 Mbit (IEEE 802.3U)
	Cable connection	RJ45 jack, 8 pins
	BACnet / IP interface	Supports B-BC profile

Interface plug	
COMM interface plug	Equipped with board-to-board: ZEC1,0/10-LPV-3,5 GY35AUC2CI1

Ambient conditions and protection classification	
Degree of protection of housing to EN 60529	IP20
Climatic ambient conditions Transport as per EN 60721-3-2	 Class 2K3 Temperature: -40...70 °C Humidity: < 95 % r.h. Atmospheric pressure: Min. 260 hPa, corresponding to max. 10000 m above sea level
Operation as per EN 60721-3-3	Class 3K7 Temperature: -40...70 °C Air humidity: <90% r.h. Atmospheric pressure: Min. 700 hPa, corresponding to max. 3000 m above sea level

Standards, directives and approvals	
Product standard	EN 60730-1 Automatic electronic controls for household and similar use.
Electromagnetic compatibility	For residential, commercial, and industrial environments.
EU conformity (CE)	CB1T3930xx
RCM conformity	CB1T3909en_C1
Listings	UL916, UL873 http://database.ul.com/ CSA Class 4812 http://www.csagroup.org
EAC	Eurasian conformity
Environmental compatibility	The product environmental declaration (CB1E3950_01) contains data on environmentally compatible product design and assessments (RoHS compliance, materials composition, packaging, environmental benefit, disposal).

Functions

LEDs "BSP" and "BUS" for diagnostics

LED	Color	Flashing frequency	Meaning/Mode
BSP	Red/Green	1 s red / 1 s green	BSP upgrade mode
	Orange	Flashing at 1 Hz	BSP upgrade failed, bad image
	Orange/Green	1 s orange / 1 s green	BSP upgrade partial done, wait for continue
	Green	Steady "on"	BSP operating and communication with controller working
	Orange	Steady "on"	BSP operating but no communication with controller
	Red	Flashing at 2 Hz	BSP error (Software error)
	Red	Steady "on"	Hardware fault
	Red/Orange	500 ms / 1000 ms	Emergency OS is operating, execute BSP upgrade again
BUS	Green	Steady "on"	• Communication active
	Red	Steady "on"	• BACnet server down • No communication (DCC is set to disable) • Ethernet link is down
	Orange	Steady "on"	• Initializing - no communication yet via IP • Restricted communication (DCC is set to disable-initiation)

If both LEDs stay dark:Power supply is outside the allowed range!

Ordering

Type	Stock number	Designation
POL908.00/STD	S55390-C106-A100	BACnet IP communication module

Delivery

Included is:

Phoenix Type	Designation
ZEC 1,0/10-LPV-3,5 GY35AUC2CI1	Board-to-board COMM interface plug

Devices are from PHOENIX CONTACT, www.phoenixcontact.com.

Product documentation

Document ID	Title	Topic
Q3900en	Climatix range	Climatix product range
M3910	Mounting instruction Climatix	Mounting and installation
P3939en	PICS	BACnet protocol implementation conformance statement

Notes

Security: National safety regulations

⚠ CAUTION

National safety regulations

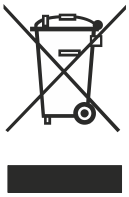
Failure to comply with national safety regulations may result in personal injury and property damage

- Observe national provisions and comply with the appropriate safety regulations.

Engineering: concept

- The communication module is attached to the controller with a board-to-board connector
- The connection to Ethernet is made via T-IP port (RJ45 jack)

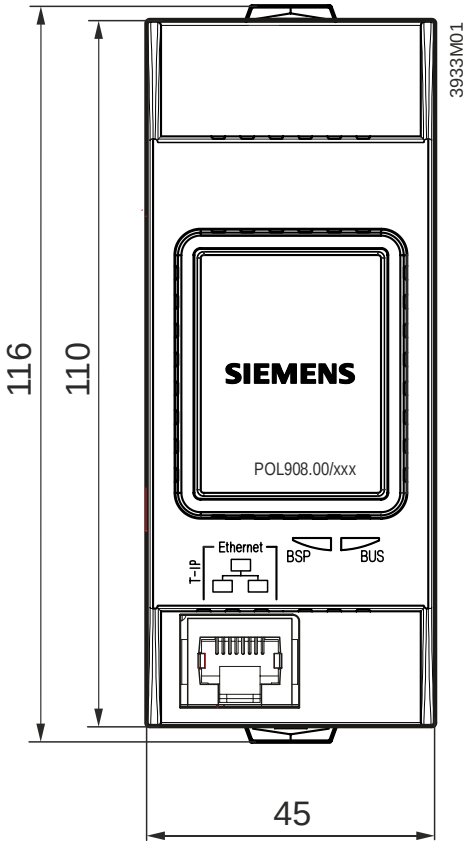
Disposal

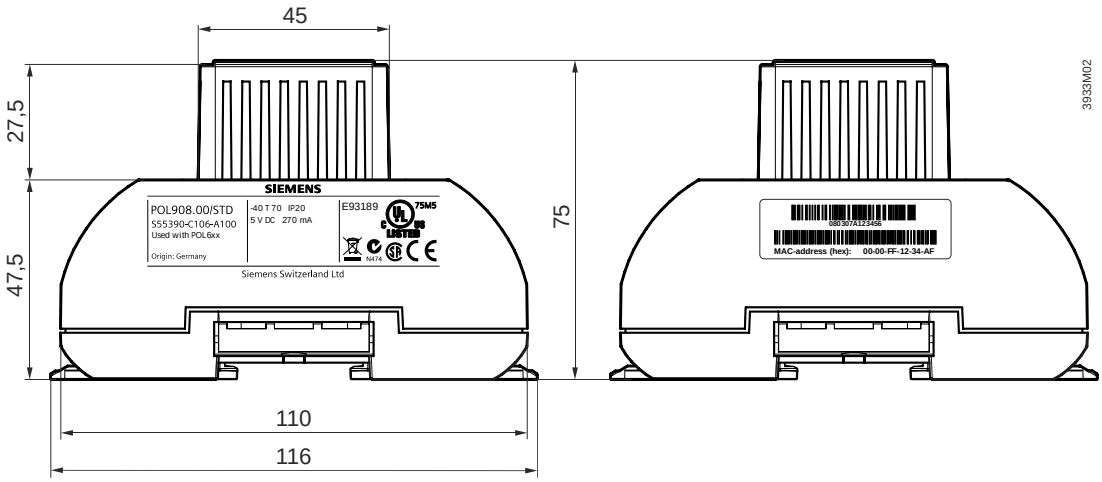


The device is considered an electronics device for disposal in terms of European Directive 2012/19/EU and may not be disposed of as domestic garbage.

- Dispose of the device through channels provided for this purpose.
- Comply with all local and currently applicable laws and regulations.

Dimensions





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