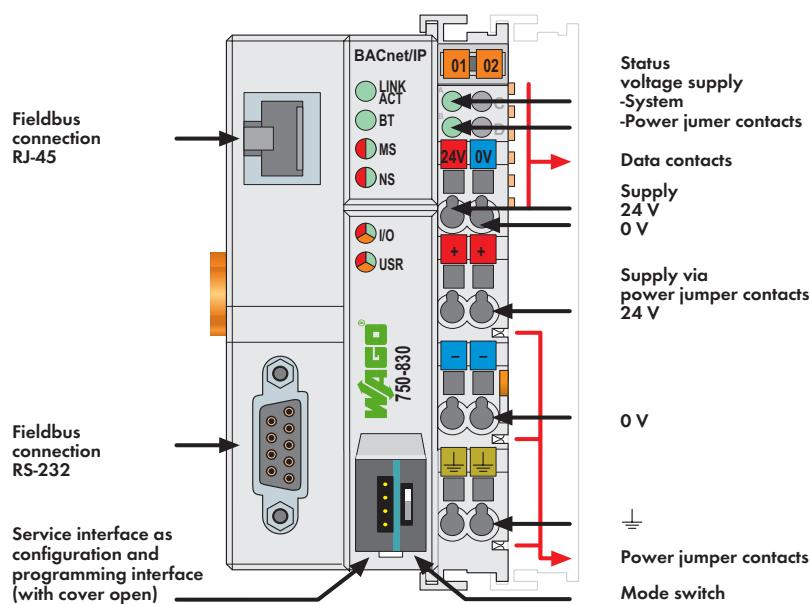


PLC - BACnet/IP Programmable Fieldbus Controller

32-bit CPU, multitasking



The 750-830 BACnet PLC connects the WAGO-I/O-SYSTEM to the BACnet protocol.

The 750-830 controller corresponds to BACnet B-BC device profile according to DIN EN ISO 16484-5.

The controller provides the three following functionalities:

1. Native server: For each channel, appropriate BACnet objects are generated automatically for the digital and analog I/O modules that are connected to the controller.
2. Application server: Other supported BACnet objects can be created via IEC-61131-3 programming environment.

3. Application client: Using the client functionality, objects and their properties can be accessed by other BACnet devices. Access to BACnet/IP networks is provided by the controller's RJ-45 interface.

The integrated RS-232 interface communicates with external devices. The controller can also be addressed as Modbus RTU slave via RS-232 interface. Programming PLC applications is performed in compliance with IEC 61131-3. The controller has a battery-backed RTC and 32-bit multitasking CPU.

For Web-based applications, HTML pages can be generated on an internal server.

Start-up and configuration of the BACnet networks is performed using the Windows-compliant WAGO BACnet Configurator.

Description	Item No.	Pack. Unit
BACnet/IP Controller	750-830	1
Accessories	Item No.	Pack. Unit
PC software WAGO BACnet configurator	see page 92	
WAGO-I/O-PRO V2.3, RS-232 kit	759-333	1
Miniature WSB Quick marking system		
plain	248-501	5
with marking	see pages 352 ... 353	
Approvals	Also see "Approvals Overview" in Section 1	
BACnet approvals		
WSPCert certification	ISO 16484-5:2010	
BTL listing	BTL (BACnet® Testing Laboratories)	
Conformity marking	CE	
Shipbuilding	ABS, DNV, GL, KR	
@ UL 508		
@ ANSI/ISA 12.12.01	Class I, Div. 2, Grp. ABCD, T4	
@ EN 60079-0, -15	I M2 / II 3 GD Ex nA IIC T4	
EN 61241-0, -1		

System Data	
System data ETHERNET:	
No. of controllers	limited by network topology
Transmission medium	S-UTP 100 Ω Cat 5
Max. length of fieldbus segment	100 m limited by IEEE 802.3
Max. length of network	acc. to IEEE 802.3 standard
Baud rate	10/100 Mbit/s
Buscoupler connection	RJ-45
Protocols	BACnet/IP, MODBUS/TCP (UDP), HTTP, BootP, DHCP, DNS, SNTP, FTP, SNMP V1, SMTP
System data Serial:	
Transmission medium	Shielded Cu cable 2 (4) x 0.25 mm ²
Max. length of fieldbus segment	15 m depending on baud rate/cable (at 19200 baud)
Baud rate	9600 baud ... 115 200 baud
Buscoupler connection	1 x D-Sub 9; socket
Programming	WAGO-I/O-PRO V2.3
IEC 61131-3	IL, LD, FBD (CFC), ST, FC
BACnet device profile	B-BC (BACnet Building Controller)
BACnet-Revision	1.7

