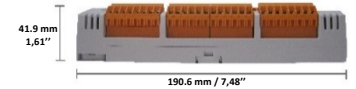
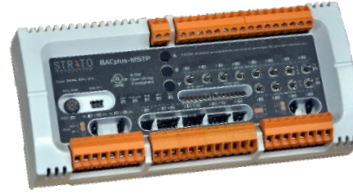


BP848

BACplus-MSTP

BACnet MS/TP
Programmable
Digital
Controller



DESCRIPTION

- ▶ This compact controller is fully programmable by the user and operates according to the BACnet MS/TP Standard.
- ▶ Complete with 8 analog inputs, 4 analog outputs and 8 binary outputs.
- ▶ Operates in stand-alone mode.

APPLICATION

This controller is designed to easily control and manage equipment's commonly used in the HVAC industry. It was developed under the BACnet MS/TP standard to facilitate the harmonious integration between our products and those of third parties. It offers solutions tailored to the actual needs of various projects. Also, it being compatible with the MEXP series, this MS/TP controller can be adapted to any situation.

TECHNICAL SPECIFICATIONS

Max. wire size :
14 AWG twisted pair

Supply voltage :
24 VAC/VDC $\pm 15\%$;
2.0A fuse, replaceable D.E.L. indicator light

Current consumption :
6VA + 48 VA maximum for external boards

Inputs :
8 universal inputs
T : Thermistor 10K Ω (type 2 or 3)
Dry contact, 500 ms minimum (On-Off)
V : Voltage 0..10 VCC (Input impedance of 100 K Ω)
I : Current 0..20 mA (internal resistance of 162 Ω)
Note : Analog inputs can also be used as binary outputs.
Resolution : 12 Bits (4096 segments)

Outputs :
Binary
8 binary outputs SSR, 10..30VAC/VDC, 1A max., « sink » and with overcurrent protection (Thermal protection with automatic reset)
Note : Binary outputs can also be used as pulse outputs.
Analog
4 analog outputs, voltage 0..10 VCC linear, of which 2 may be 0..20mA.
Note : Binary outputs can also be used as pulse outputs.

Real-Time Clock (RTC) : yes

Sound (Buzzer) : yes

Trend Logs :
Automatic on all current BACnet objects. Limited only by the storage capacity of the server.

Microprocessor :
STM32 (ARM CortexTM M4), 32 bits, 180 MHz

Memory :
2Mo Flash non-volatile, 256Ko RAM, 2Mo SDRAM (external)

BACnet objects : 202 maximum

Tzone wall interface :
Up to 8 Tzone per BACplus-MSTP controller,
« daisy chain » configuration on RS-485 protocol.

Connection speed:
BACTnet MS/TP : 9600, 19200, 38400, 76800
Expansion (I/O Boards) : owner protocol at 460800 bps

External port :
mini USB. To use for initial configuration of the controller (Config MS/TP software).

Controller addressing :
Addressing via DIP switch

Power outage protection :
A capacitor maintains the time case in of a power-out, for approximately 2 weeks once fully charged.

Programming :
Programming in « C » language using BACnetClient (STRATO Automation) interface software.

Communication protocol :
BACnet MS/TP

Dimension :
88.3 mm x 190.6 mm x 41.9 mm / 3,48" x 7,48" x 1,61"

Storage/Transport temperature :
-30 $^{\circ}$ C .. 50 $^{\circ}$ C / -22 $^{\circ}$ F .. 122 $^{\circ}$ F

Operating temperature :
-25 $^{\circ}$ C .. 45 $^{\circ}$ C / -13 $^{\circ}$ F .. 113 $^{\circ}$ F

Relative humidity :
10 .. 90 % H.R.

Weight :
315 g / 0.7 lb

Mounting method :
DIN rail or retractable screw clip system.

Case : white, ABS UL94VO material

Warranty :
1 years

Certification :
UL (CAN & US)
UL 916 Energy Management Equipment (Pending)
BTL B-ASC, BACnet Application Specific Controller (Pending)