

BP848-DIO-LX Configurable MS/TP Distributed I/O Controller

Designed and assembled in Canada

Description

- ✓ 8 AI/BIs, 4 AOs & 8 BOs with local HOA switches for outputs
- ✓ Configurable by jumper selectors
- ✓ Native BACnet MS/TP
- ✓ BTL certified as a B-ASC (BACnet Application Specific Controller)
- ✓ Configurable with Onyx LX UI or any BACnet manager with Onyx LX USB to RS-485 adapter
- ✓ To order, use part number: **BP848-DIO-LX**

ONYX[®] LX
BY LYNXSPRING



Application

This controller is designed to facilitate the control and management of HVAC equipment.

Technical Specifications

POWER SUPPLY

24 Vac/dc \pm 15%; Class 2
2.0 A Field replaceable fuse

CURRENT CONSUMPTION

6 VA only

INPUTS

- 8 x AI/BIs universal inputs
 - Thermistor 10 K Ω (type 2 or 3)
 - Dry contact, 500 ms minimum (On-Off)
 - Voltage 0 - 10 Vdc (Input impedance of 100 K Ω)
 - Current 0 - 20 mA (internal resistance of 162 Ω)
 - Resolution: 12 bits (4,096 segments)

OUTPUTS

- 8 x BOs Solid State
 - 10 to 30 Vac/dc, 1 A maximum
 - Current sinking and with overcurrent protection
 - Thermal protection with automatic reset
 - Solid State BO's can be used as pulse outputs
- 4 x AOs
 - Voltage 0 - 10 Vdc linear
 - 2 AO's can be 0 - 20 mA.

REAL TIME CLOCK (RTC)

Built in with 2-weeks capacitor backup when charged

MICROPROCESSOR

STM32 (ARM Cortex[™] M4)
32 bits, 180 MHz

MEMORY

Flash: 2 MB non-volatile for the application program
RAM: 256 KB
SRAM external: 2 MB

RS-485 BACNET MS/TP COMMUNICATION SPEED

9600, 19200, 38400, 76800, 115200 Bps

CONTROLLER ADDRESSING

Via DIP switch

EXPANSION (I/O BOARDS) COMMUNICATION SPEED:

Local bus at 460800 Bps

EXTERNAL CONNECTIONS

Mini USB Type-A connector allows local access to the MS/TP network.
Requires the USB to RS-485 adapter: USB-MSTP-LX.

TZ100-LX/TZ200-LX WALL INTERFACE

1 controller based on solution used.
Daisy-chained wiring on local RS-485 port.

COMMUNICATION PROTOCOLS

BACnet MS/TP

DIMENSIONS

88.3 mm x 191 mm x 42 mm
3.5 in. x 7.5 in. x 1.6 in.

WIRE SIZE

18-24 AWG acceptable; 18 AWG recommended

STOCKING TEMPERATURE

-30 °C to 50 °C / -22 °F to 122 °F

OPERATING CONDITIONS

-25 °C to 45 °C / -13 °F to 113 °F
10% to 90% RH without condensation

WEIGHT

315 g. / 0.7 lb.

MOUNTING TYPE

Quick mount on DIN rail or with a retractable screw-clip system

WARRANTY

1 year

ENCLOSURE

White color, ABS material UL94VO

CERTIFICATIONS

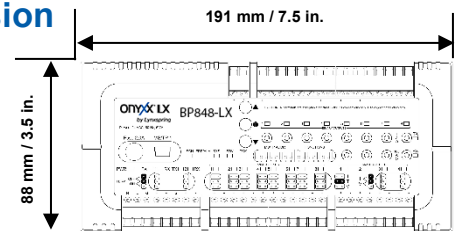
UL 916 Energy Management Equipment
BTL listed: B-ASC, BACnet Application Specific Controller



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Dimension



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Revised 4/1/2022
Onyx-BP848-LX-DS-V1.3