

BP848-LX Configurable Panel ASC for RTU/AHU

ONYXX® LX PANEL-ASC | PRODUCT DATA SHEET

Designed and assembled in Canada

Description

- ✓ Supports BACnet MS/TP
- ✓ Has 8 AI/BI's, 4 AO's & 8 BO's with local HOA switches for the outputs
- ✓ BTL certified as a B-ASC (BACnet Application Specific Controller)
- ✓ Supports 1 TZ100-LX or TZ200-LX room sensor
- ✓ Requires Onyx LX USB to RS-485 adapter to program with Onyx LX UI
- ✓ To order use part number: **BP848-LX**

ONYXX® LX
by Lynxspring



Application

This controller is designed to facilitate control and management of equipment typically used in the HVAC industry. It allows powerful yet flexible solutions that can be tailored and sized according to any project need.

Technical Specifications

POWER SUPPLY

24 Vac/dc ± 15%
2 A replaceable fuse
LED power indicator

CURRENT CONSUMPTION

6 VA only

INPUTS

- 8 x AI/BI's 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 BO's 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 AO's
 - 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 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.

MAXIMUM WIRE SIZE

14 AWG

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

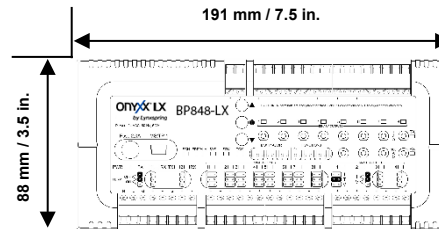
ENCLOSURE

White color, ABS material UL94VO

CERTIFICATIONS

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

Dimensions



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2900 NE Independence Ave
Lees Summit, MO 64064
sales@lynxspring.com
1 (877) 649-5969


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www.lynxspring.com

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