

BP848-LX Configurable Panel ASC for RTU/AHU

ONYXX® LX PANEL-ASC | PRODUCT DATA SHEET

Designed and assembled in Canada

Description

- ✓ Configurable with factory pre-loaded applications for RTU, Heat Pump, and AHU equipment
- ✓ 8 AI/BI's, 4 AO's & 8 BO's with local HOA switches for outputs
- ✓ Native BACnet MS/TP
- ✓ 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 the control and management of HVAC equipment. Shipped with factory pre-loaded configurable applications provided for RTU, Heat Pump, and AHU requirements.

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/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 CortexTM 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

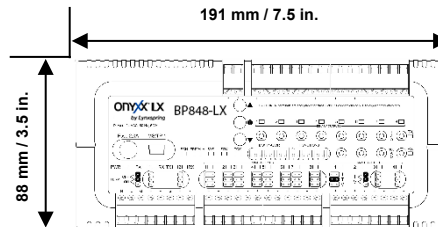
ENCLOSURE

White color, ABS material UL94V0

CERTIFICATIONS

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

Dimensions



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