

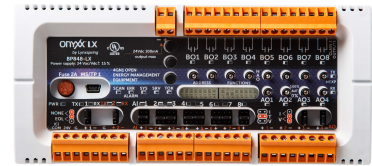
B848-LX Configurable Panel ASC for RTU/AHU

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
- ✓ Has 8 AI/BIs, 4 AOs & 8 BOs
- ✓ 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: **B848-LX**



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/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 (no override switches)
- 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 (no override switches)
- Voltage 0 - 10 Vdc linear
- 2 AOs can be 0 - 20 mA

REAL TIME CLOCK (RTC)

Built in with one-week 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

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 190.6 mm x 41.9 mm
3.48 in. x 7.48 in. x 1.61 in.

WIRE SIZE

18-24 accepted; 18 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

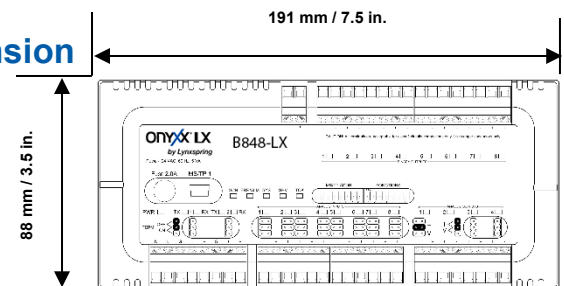
UL 916 Energy Management Equipment
BTL listed: B-ASC, BACnet Application Specific Controller



BACnet is a registered trademark of ASHRAE. ASHRAE does not endorse, approve or test products for compliance with ASHRAE standards. Compliance of listed products to the requirements of ASHRAE Standard 135 is the responsibility of BACnet International. BTL is a registered trademark of BACnet International.



Dimension



© 2022 by Lynxspring, Inc. All rights reserved. The information and/or specifications published here are current as of the date of publication of this document. Lynxspring, Inc. reserves the right to change or modify specifications without prior notice. The latest product specifications can be found by contacting our corporate headquarters in Lee's Summit, Missouri. Products or features contained herein are covered by one or more United States or foreign patents. Other brand and product names are trademarks or registered trademarks of their respective holders. This document may be copied by parties who are authorized to distribute Lynxspring products in connection with distribution of those products, subject to the contracts that authorize such distribution. It may not otherwise, in whole or in part, be copied, photocopied, reproduced, translated, or reduced to any electronic medium or machine-readable form without prior written consent from Lynxspring, Inc. Complete Confidentiality, Trademark, Copyright and Patent notifications can be found at: lynxspring.com/company/legal.

Lynxspring[®], JENEsys[®], JENEsys Edge[®], Onyx[®] and Helixx[®] are registered trademarks of Lynxspring, Inc.
Niagara Framework[®] is a registered trademark of Tridium, Inc.

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



© 2021 Lynxspring, Inc.
All Rights Reserved
Revised 3/16/2022
Onyx-B848-LX-DS-V1.3