MOD-0100 (Modulating Boiler Expansion Module)

Technical Data Sheet

Submittal: HBX MOD-0100

Project: [ ]

HBX Control Systems Inc. - Specification

Part 1: MOD-0100 Product

1. The Expansion Module Unit must be capable of directly interfacing (no cross-wiring) as an expansion module with HBX CPU-1000.

2. The Expansion Module Unit must be capable of adding the following Input/Output Functions to the HBX 1000 series control that it is connected to:

    a. 2 x Modulating Output Channels

    b. 1 x Powered Contact Demand Input

    c. 1 x Thermistor Input

3. The Expansion Module Unit must be daisy chainable, with no cross-wiring required. Up to 3 MOD-0100 modules can be combined with an HBX CPU-1000.

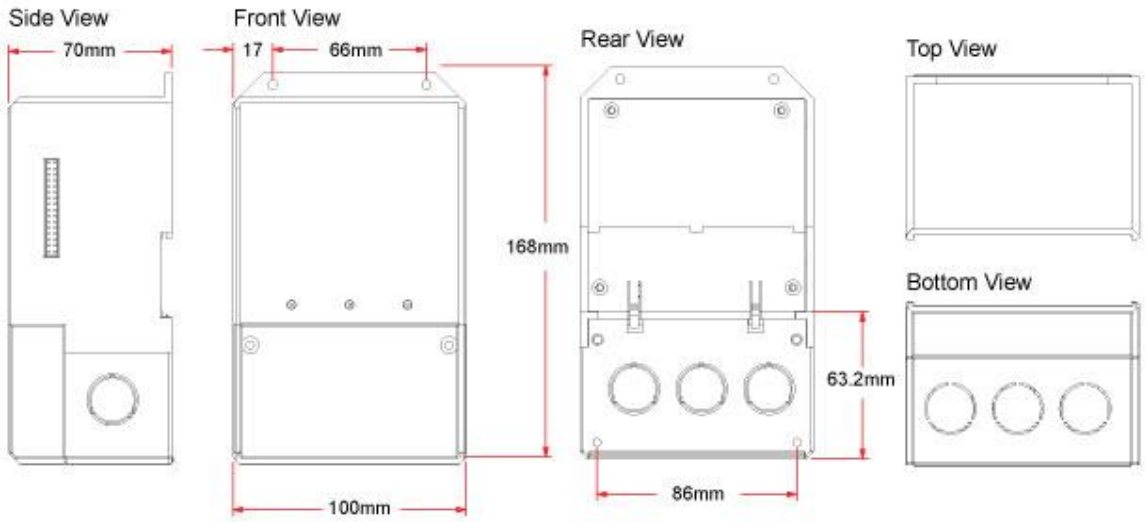
4. The Expansion Module Unit must provide independent, DIP switch selectable, output modes, for selecting between 0-10VDC and 4-20mA outputs.

5. The Expansion Module Unit must be ETL approved.

Part 2: Acceptable Products

1. HBX MOD-0100 Expansion Module Unit

Part 3: Physical Dimensions



Part 4: Technical Data, Main Parts & Labels

Inputs/Outputs:

1 x Thermistor Input (10 K Ohm)
2 x Modulating Output Channels (0-10VDC or 4-20mA)
1 x Demand Signal Input (20-240VAC)

Power supply:

N/A

Supplied Parts:

32-Pin Connector 033-0037

Dimensions:

3.94” x 6.61” x 2.76” (100mm x 168mm x 70mm)

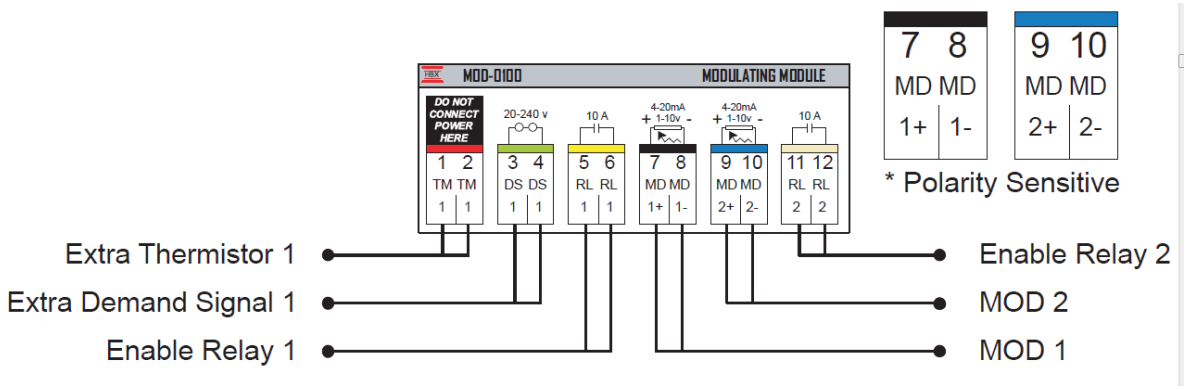
ETL Listings:

Meets CSA C22.2 No. 24
Meets UL Standard 873
ETL Control No. 3068143

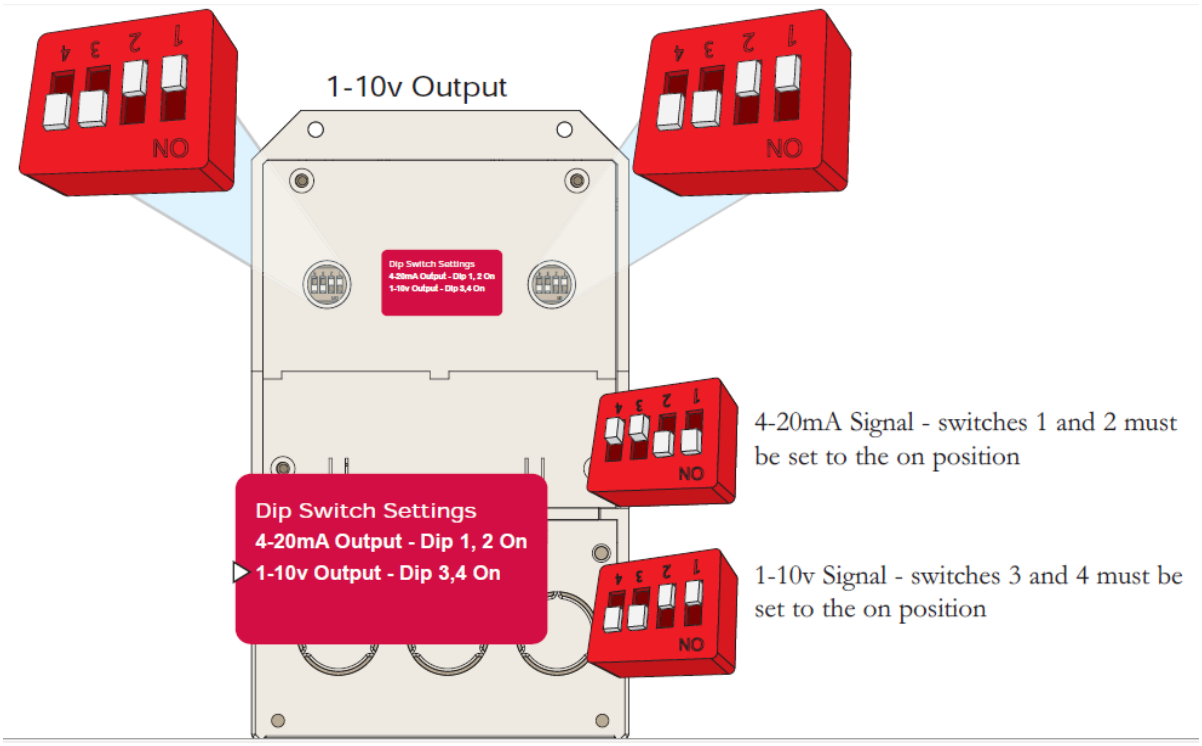
Storage:

50°F to 104°F (10ºC to 40ºC)

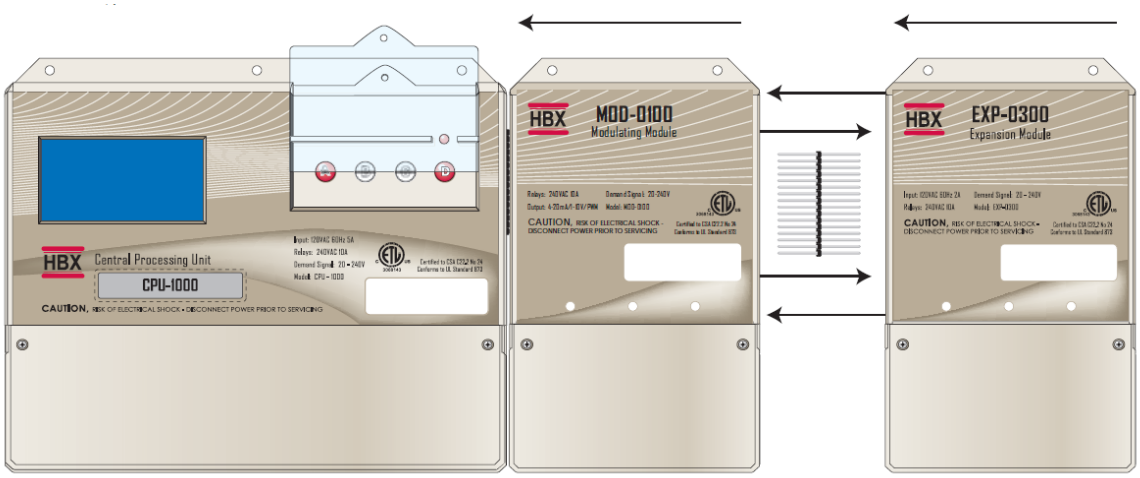
Terminal Block Labels:



DIP Settings:



Part 5: Connecting the MOD-0100 Module:



Place the CPU-1000 and desired expansion modules on a flat surface. Align the 32-pin connector into the holes on the expansion module and gently push into place. Next slide the CPU-1000/ECO-1000 onto the 32-pin connector by carefully matching up the holes and pins. When installed correctly there is virtually no gap between units. With power applied to the assembly, the first (green) LED should be illuminated on each expansion module. This lit, green LED serves as confirmation of both electrical and communications continuity. When used as an expansion module, the ZON-0500 must be enabled in the “Control Options” menu.