Date: Bid Date: Project #: Location: Project Name: Engineer: Contractor: Prepared By:

LAARS BACnet Interface Module

For Laars M4-LHS

Model X-BAC

***Specification***

The Laars X-BAC interface module adds BACnet MS-TP communication capability to the M4-LHS multiple boiler control and M4-EXT extension panels that may be used. All BACnet settings are configured through the M4-LHS.

The module shall be shipped with, and use, RJ45 cable to connect to the M4-LHS control. It shall use an RS485 (RJ11) cable that comes with the

M4-EXT to connect to the M4-EXT.

The module shall require no external power source. It shall receive power from the M4-LHS through the RJ45 cable.

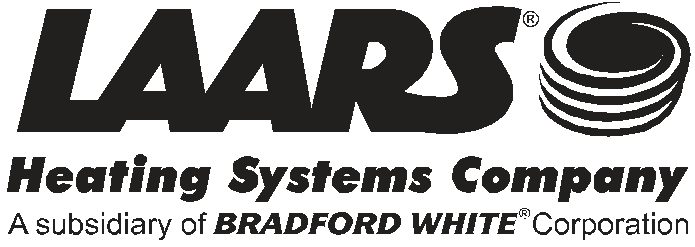
The module shall have removable MS/TP terminals to facilitate easy wiring to the BACnet system with #18 AWG twisted pair cable. Up to 3500 feet of twisted pair cable shall be allowed between the X-BAC and the BACnet system.

The module shall have three operation LEDs. A yellow LED shall indicate communication between the X-BAC and the M4-LHS. A green LED shall indicate communication between the X-BAC and the BACnet network. A red LED shall indicate that the X-BAC is operational.

The module shall have mounting tabs, shall be 6-3/4" x 3-5/8" x 1", and shall weigh one pound. The variable list that is available to the BACnet network from the M4-LHS shall be:

|  |  |  |
| --- | --- | --- |
| • Operation mode | • Minimum water temp. | • Non-condensing unit lead stage |
| • Outdoor temperature | • Maximum water temp. | • Reaction time |
| • System temperature | • Setback | • Minimum run time |
| • Output status | • Purge delay | • Gain |
| • Control status | • System run-on | • Lag delay |
| • Season | • Rotation time | • Soft off |
| • Reset ratio | • Standby time | • Set time |
| • Offset | • Last stage hold | • Day schedule |
| • Outdoor cutoff | • Condensing unit lead stage | • Night schedule |

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