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

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
- Outdoor temperature
- System temperature
- Output status
- Control status
- Season
- Reset ratio
- Offset
- Outdoor cutoff

- Minimum water temp.
- Maximum water temp.
- Setback
- Purge delay
- System run-on
- Rotation time
- Standby time
- Last stage hold
- Condensing unit lead stage

- Non-condensing unit lead stage
- Reaction time
- Minimum run time
- Gain
- Lag delay
- Soft off
- Set time
- Day schedule
- Night schedule