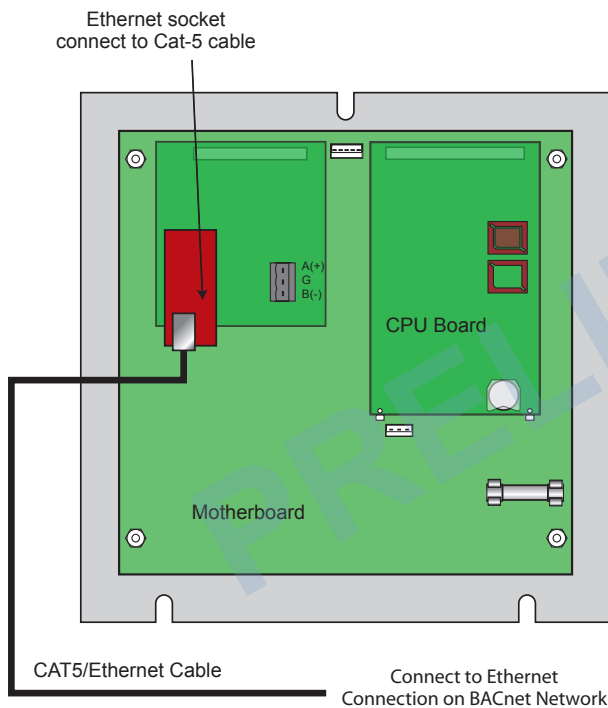
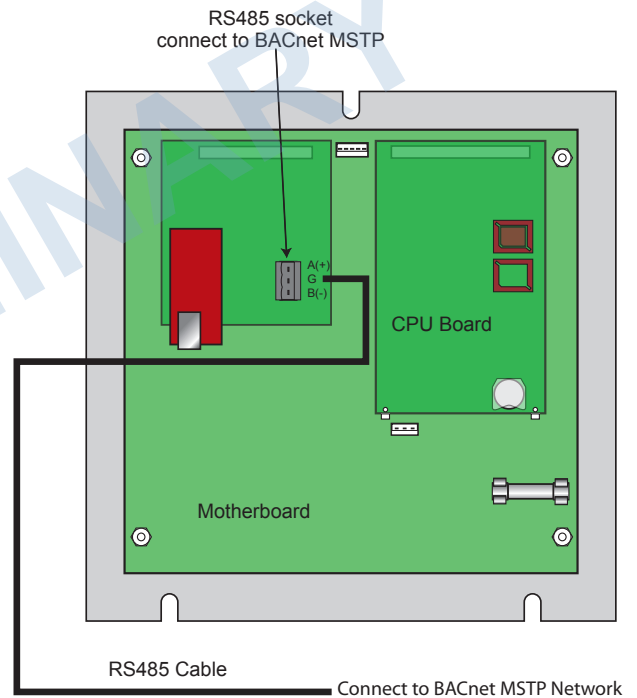


PLATINUM CONTROL REAR VIEW

PLATINUM PANEL CONNECTED TO BACnet IP Network



PLATINUM PANEL CONNECTED TO BACnet MSTP Network



⚠ WARNING

This Heat-Timer control is strictly an operating control; it should never be used as a primary limit or safety control. All equipment must have its own certified limit and safety controls required by local codes. The installer must verify proper operation and correct any safety problems prior to the installation of this Heat-Timer control.

PLATINUM BACNET IP/MSTP WIRING

- The Platinum control comes either as a Standard control, without any communication, or with BACnet communication.
- The BACnet Communication Board has an Ethernet socket for the BACnet IP and a RS485 socket for the BACnet MSTP.
- All Platinum controls' operating functions can be set through the BACnet system. However, Startup functions are available through the BACnet system as Read Only. Set all Startup functions locally before configuring the BACnet parameters.

BACnet IP Wiring

- The Ethernet cable must use the Platinum control's enclosure bottom right side knockout.
- Connect the CAT5 Ethernet cable coming from the BACnet IP network to the Ethernet RJ45 communication socket on the back of the control's Communication Board.
- For reliable communication, do not run the Ethernet cable more than 200 Ft.

BACnet MSTP Wiring

- The RS485 cable must use the Platinum control's enclosure bottom right side knockout.
- Connect the MSTP cable coming from the BACnet MSTP network to the Ethernet RJ485 communication socket on the back of the control's Communication Board. The terminals are labeled 'A (+)', 'G (Ground)', and 'B (-)'.
- Connect the RS485 to the back of the Platinum control's BACnet Communication Board.
- Use 18# Twisted Pair cable. The cable length must not exceed 3500 feet.
- The ground RS485 terminal (G) MUST be connected to the BMS RS485 Ground.

BACNET COMMUNICATION OPTION

SELECT: MENU/<Maintenance>/Network Settings **Multi-MOD Platinum Only**

SELECT: MENU/<Settings>/<More Settings>/<Remote Interface>/Network Settings

- Before connecting the Platinum control to the BACnet network, the user must set the following parameters according the BACnet Network Administrator's instructions.

Selecting BACnet IP or BACnet MSTP

SELECT: MENU/.../ Network Settings/Switch to IP or MSTP

- The same Platinum control can operate within a BACnet IP or BACnet MSTP network.
- To switch to BACnet IP from the MSTP menu, select the **Switch to IP** option.
- To switch to BACnet MSTP from the IP menu, select the **Switch to MS/TP** option.

BACnet IP Communication Configuration

- All Heat-Timer Platinum controls can communicate over a BACnet IP network either directly or through a gateway with the BACnet IP driver. However, when purchased, the control must be ordered as or be upgraded to BACnet communication.
- Using a gateway is beneficial when communicating to a proprietary protocol EMS/BMS system. The gateway used must have both drivers, the BACnet IP or MSTP and the proprietary protocol.

BACnet Device ID

- This is a 32 bit unique number within the BACnet network. It identifies the Platinum control within the BACnet network. It must be provided by the BACnet Network Administrator and entered into the **BACnet ID** field.

IP and Mask Addresses

- The Platinum control IP address must be unique within the IP network.
- Both of the IP and Mask addresses must be provided by the Network Administrator.
- Leaving the IP and Mask Addresses as blank or 000.000.000.000 will allow them to get their information from a DHCP server.
- If the no DHCP will be used, enter the IP address in the **IP** field and the Mask in the **Mask** field. After dialing each octet, press the **ADJUST/SELECT** button to accept and move on to the next octet.

⚠ ALERT
A BACnet capable Platinum control will display --- NETWORK PANEL --- on the 2nd row of the display when in screen saver mode.

⚠ ALERT
DO NOT USE the RS485 Connector on the Motherboard for BACnet communication. Use the RS485 Connector on the BACnet Communication Board instead.

```
--NETWORK SETTINGS--  
BACnet ID: 1  
MS/TP Address: 1  
Baud: 9600  
* Switch to IP
```

```
--NETWORK SETTINGS--  
BACnet ID: 5  
IP: 192.168.001.015  
Msk: 255.255.255.000  
* Switch to MS/TP
```

```
--NETWORK SETTINGS--  
BACnet ID: 5  
* IP: 192.168.001.015  
Msk: 255.255.255.000  
Switch to MS/TP
```

```
--BACNET DEVICE ID--  
1  
[■ ]
```

```
---- IP ADDRESS ----  
000 . --- . --- . ---
```

```
-- ADDRESS MASK --  
000 . --- . --- . ---
```

BACnet MSTP Communication Configuration

- Platinum controls can communicate over a BACnet MSTP network either directly or through a gateway with the BACnet MSTP driver. However, when purchased, the control must be ordered as or be upgraded to BACnet communication.
- Using a gateway is beneficial when communicating to a proprietary protocol EMS/BMS system. The gateway used must have both drivers, the BACnet IP or MSTP and the proprietary protocol.

```
--NETWORK SETTINGS--
BACnet ID:          1
# MS/TP Address:    1
Baud:               9600
Switch to IP
```

BACnet Device ID

- This is a 32 bit unique number within the BACnet network. It identifies the Platinum control within the BACnet network. It must be provided by the BACnet Network Administrator and entered into the BACnet ID field.

```
--BACNET DEVICE ID--
1
[■ ]
```

MS/TP Address/ MAC Address

- This is the MSTP or MAC address on a RS485 network. Its MSTP range is 1 though 127.
- The MS/TP address must be provided by the Network Administrator.

```
--MAC ADDRESS--
1
[■ ]
```

MSTP Baud rate)

Options: 9600, 19200, 38400

Default: 9600

- The Baud determines the speed of communication.
- Both the Platinum control and BMS must use the same Baud rate.
- The communication is fixed to 8 Data Bits, No Parity, and 2 Stop Bits.

```
--NETWORK SETTINGS--
BACnet ID:          1
# MS/TP Address:    1
Baud:               9600
Switch to IP
```

TROUBLESHOOTING

If no communication is the symptom, check the following:

- Make sure that RS485 A and B terminals polarity is correct. Otherwise, there will be no communication.
- Check the Baud rate. Successful communication between the Platinum control and the BMS depends on both being set to the same Baud rate.

If intermittent communication is the symptom, check the following:

- Make sure that the communication cable is of the twisted pair.
- Reliable communication depends on the cable length and Baud rate used. Long cable length may require a lower Baud rate.

Platinum BACnet PICS Statement

Product	Model Number	Protocol Revision	Software Version	Firmware Version
Platinum series BACnet Controls	Varies	1.5	tbd	tbd

Vendor	Vendor ID	Address and Phone
Heat-Timer Corporation	248	20 New Dutch Ln. Fairfield, NJ 07004 - (973)575-4004

Product Description

Various controls for heating or cooling applications. Includes Platinum Models MPC, Multi-MOD, HWR, HWRQ, Multi-Mod, SRC. (see <http://www.heat-timer.com> for more information)

BACnet Standardized Device Profile (Annex L)

Product	Device Profile
Platinum series BACnet Controls	BACnet Application Specific Controller (B-ASC)

Supported BIBBs (Annex K)

Supported BIBBs	BIBB Name
DS-RP-B	Data Sharing-ReadProperty-B
DS-WP-B	Data Sharing-WriteProperty-B
DM-DDB-B	Device Management-Dynamic Device Binding-B
DM-DOB-B	Device Management-Dynamic Object Binding-B
DM-DCC-B	Device Management-DeviceCommunicationControl-B

Standard Object Types Supported

Object Type	Creatable	Deletable
Analog Value	No	No
Binary Value	No	No
Multi-State Value	No	No
Device	No	No

Data Link Layer Options (Annex J)

Product	Data Link	Options
Platinum series BACnet Controls	BACnet/IP	

Segmentation Capability

Segmentation Type	Supported	Window Size (MS/TP product limited to 1)
Able to transmit segmented messages	No	
Able to receive segmented messages	No	

Device Address Binding

Product	Static Binding Supported
Platinum series BACnet Controls	No

Character Sets

Product	Character Sets supported
Platinum series BACnet Controls	ANSI X3.4

HT# 059082-00B