**Setting up communication between master/slave SLATE devices:**

The Base Rate SLATE Lead Lag system is configured of a master SLATE controller which runs the lead lag logic as well as controls the first SLATE device. Burners 2-4 are separate SLATE systems, each built in its own SLATE panel.

The SLATE master will generate commands to the slave SLATE systems which are in part dependent on information shared back by the slave burners.

The following document shows how to configure BACnet communication between the master and the slave burners. Both the master and slave wire sheets have been designed using BACnet registers to receive data from other SLATE systems on the network. Any changes made to the wire sheets may result in broken communication. Use the Reports/BACnet Registers buttons in the Niagara projects (master/slave) if changes are required. Also reference the "Peer to Peer BACnet Configuration" document for additional BACnet configuration instructions.

NOTE:        SLAVE devices are assigned their order in the sequence by virtue of the BACnet configuration and NOT in the wire sheet.

NOTE:        Insure each SLATE system is assigned its own IP address using the Base display. Menu/Base setup/Network/Ethernet/IP addr. All SLATE systems must be on the same subnet.

**Accessing the BACnet Configuration Pages in the Honeywell Generic Pages**

- Open the Generic pages on the SLATE device to be configured. Click on "Module Pages" then the "BASE" module.

- Click on the "Communication Setup" button.



- Click the "BACnet" tab.

- The required fields to fill out are Device Object Instance, Ethernet Configuration, and MAC Address, depending on the protocol needed/used.  If using BACnet over Ethernet, fill out the Device Object Instance field (NOTE: each SLATE device must have a unique instance number) and the Ethernet Configuration which in this application of SLATE devices communicating to other SLATE devices on the same network, will be either "Plain BACnet/IP" or "BACnet/Ethernet".  All configured SLATE devices on the network must use the same Ethernet configuration.



NOTE:    Both Master and Slave devices MUST be configured in order for the Lead Lag system to function correctly.  An improperly configured SLATE Master device will result in the Lead Lag application to be non-functional while an improperly configured SLATE Slave device will result in that Lead Lag stage to be non-functional.

**Setting up BACnet communication over Plain BACnet/IP or BACnet/Ethernet from the SLATE Base menu:**

In this configuration we show the BACnet configuration over a network.  To configure communication over RS485, see the "Peer to Peer BACnet Configuration" document for additional information.

1. On the SLATE Base module, click the "Menu" button.

2. Using the up/down arrows, move to "Base setup" and click the "OK" button on the SLATE Base module.

3. Using the up/down arrows, move to "Network" and click the "OK" button on the SLATE Base module.

4. Using the up/down arrows, move to "Ethernet" and click the "OK" button on the SLATE Base module.

5. Using the up/down arrows, move to "BACnet" and click the "OK" button on the SLATE Base module.

6. Using the up/down arrows, move to "Configuration" and click the "OK" button on the SLATE Base module.

7. Using the up/down, left/right arrows, select the connectivity protocol and move to OK on the screen and click the "OK" button on the SLATE Base module.

**Transmitting/Receiving Data:**

Once communication has been set up on the Base modules, we are ready to set up the binding (transmit/receive). Each SLATE wire sheet (master/slave) requires information from the other SLATE Bases. For example, the SLATE Master must know the state of each of the Slave burners and each of the SLATE Slaves, must know if the SLATE Master is commanding it to start its sequence. This is just one example of the multiple messages that are passed between the SLATE Master and SLATE Slave.

The data of each (Master/Slave) is "queried" by the SLATE system that needs the information. The following BACnet binding section must be completed for each of the SLATE devices in the lead lag system. We start with setting up the SLATE Master to query each of the SLATE Slaves for the data it needs to process its logic (wire sheet).

| Required Data for Master (from Slaves): | Object ID | Slave # |
|---|---|---|
| 1  Burner 2 state | 116 | 2 |
| 2  Burner 3 state | 116 | 3 |
| 3  Burner 4 state | 116 | 4 |
| 4  Burner 2 throttle | 117 | 2 |
| 5  Burner 3 throttle | 117 | 3 |
| 6  Burner 4 throttle | 117 | 4 |
| 7  Auto/Manual/LL burner 2 | 115 | 2 |
| 8  Auto/Manual/LL burner 3 | 115 | 3 |
| 9  Auto/Manual/LL burner 4 | 115 | 4 |
| 10 Burner 2 in LL/Run | 120 | 2 |
| 11 Burner 3 in LL/Run | 120 | 3 |
| 12 Burner 4 in LL/Run | 120 | 4 |
| 13 Burner 2 local demand | 111 | 2 |
| 14 Burner 3 local demand | 111 | 3 |
| 15 Burner 4 local demand | 111 | 4 |

The BACnet Object ID is found in the BACnet Interface report in Niagara AX. The Master BACnet Interface report is found in the Master SLATE Device while the Slave BACnet interface report is found in the Slave Device.

In the Master SLATE device click on the "Reports" button.
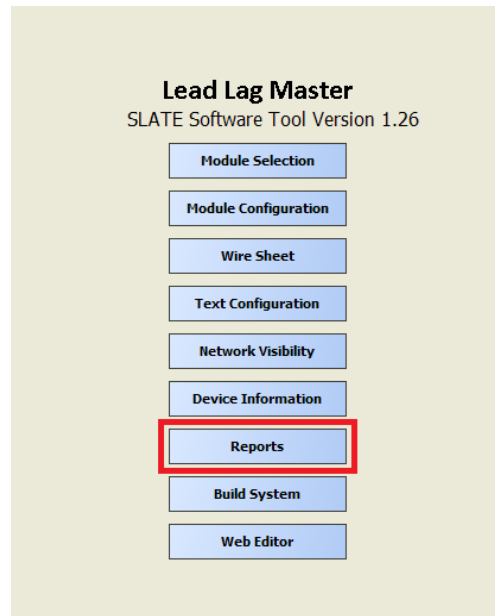


Click on the "BACnet Interface Report" button.
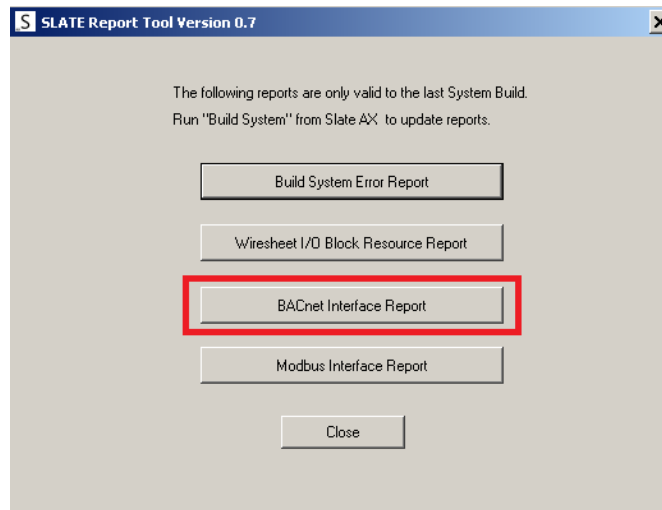


NOTE: Before a report can be generated, make sure you first click on the "Build System" button once the Lead Lag station is loaded.

Below is the complete SLATE Slave BACnet Object ID report.

NOTE: Making changes to the wire sheet may change the Object ID report.

| | Object ID | Object Name | Resource | BACnet Type | Units | Min Value | Max Value |
|---|---|---|---|---|---|---|---|
| 1 | 104 | m1ControlProgram_Header_Sensor | m1r308 | Analog Input (AI) | | -3.402823E+038 | 3.402823E+038 |
| 2 | 110 | m1ControlProgram_Setpoint | m1r1000 | Analog Value (AV) | deg F | -3.402823E+038 | 3.402823E+038 |
| 3 | 111 | m1ControlProgram_Manual_On_Off | m1r1001 | Analog Value (AV) | | -3.402823E+038 | 3.402823E+038 |
| 4 | 112 | m1ControlProgram_Proportional | m1r1002 | Analog Value (AV) | deg F | -3.402823E+038 | 3.402823E+038 |
| 5 | 113 | m1ControlProgram_Integral | m1r1003 | Analog Value (AV) | s | -3.402823E+038 | 3.402823E+038 |
| 6 | 114 | m1ControlProgram_Derivative | m1r1004 | Analog Value (AV) | s | -3.402823E+038 | 3.402823E+038 |
| 7 | 115 | m1ControlProgram_PID_Manual_Lag | m1r1005 | Analog Value (AV) | | -3.402823E+038 | 3.402823E+038 |
| 8 | 116 | m1ControlProgram_BurnerStatusOutput | m1r1006 | Analog Value (AV) | | -3.402823E+038 | 3.402823E+038 |
| 9 | 117 | m1ControlProgram_EffectiveThrottle | m1r1010 | Analog Value (AV) | % | -3.402823E+038 | 3.402823E+038 |
| 10 | 118 | m1ControlProgram_PID_Out | m1r1011 | Analog Value (AV) | % | -3.402823E+038 | 3.402823E+038 |
| 11 | 119 | m1ControlProgram_Or1_Output | m1r1012 | Analog Value (AV) | | -3.402823E+038 | 3.402823E+038 |
| 12 | 120 | m1ControlProgram_InGroupRun | m1r1013 | Analog Value (AV) | | -3.402823E+038 | 3.402823E+038 |
| 13 | 121 | m1ControlProgram_InGroupDemand | m1r1014 | Analog Value (AV) | | -3.402823E+038 | 3.402823E+038 |
| 14 | 122 | m1ControlProgram_Slave_Nr | m1r1015 | Analog Value (AV) | | -3.402823E+038 | 3.402823E+038 |
| 15 | 123 | m1ControlProgram_SlaveNr_Out | m1r1016 | Analog Value (AV) | | -3.402823E+038 | 3.402823E+038 |
| 16 | 124 | m1ControlProgram_SensorValue | m1r1017 | Analog Value (AV) | deg F | -3.402823E+038 | 3.402823E+038 |
| 17 | 125 | m1ControlProgram_LeadLagThrottle | m1r1018 | Analog Value (AV) | % | -3.402823E+038 | 3.402823E+038 |
| 18 | 126 | m1ControlProgram_Com_OK | m1r1019 | Analog Value (AV) | | -3.402823E+038 | 3.402823E+038 |
| 19 | 127 | m1ControlProgram_LFH_Threshold | m1r1020 | Analog Value (AV) | deg F | -3.402823E+038 | 3.402823E+038 |
| 20 | 128 | m1ControlProgram_LFH_Timer | m1r1021 | Analog Value (AV) | s | -3.402823E+038 | 3.402823E+038 |
| 21 | 129 | m1ControlProgram_LFH_Enable | m1r1022 | Analog Value (AV) | | -3.402823E+038 | 3.402823E+038 |
| 22 | 130 | m1ControlProgram_And_Out | m1r1023 | Analog Value (AV) | deg F | -3.402823E+038 | 3.402823E+038 |
| 23 | 131 | m1ControlProgram_PID_Disable | m1r1024 | Analog Value (AV) | | -3.402823E+038 | 3.402823E+038 |
| 24 | 132 | m1ControlProgram_Compare5_Out | m1r1025 | Analog Value (AV) | | -3.402823E+038 | 3.402823E+038 |
| 25 | 133 | m1ControlProgram_And6_Out | m1r1028 | Analog Value (AV) | | -3.402823E+038 | 3.402823E+038 |
| 26 | 134 | m1ControlProgram_And7_Out | m1r1029 | Analog Value (AV) | | -3.402823E+038 | 3.402823E+038 |
| 27 | 135 | m1ControlProgram_Select5_Out | m1r1030 | Analog Value (AV) | | -3.402823E+038 | 3.402823E+038 |
| 28 | 136 | m1ControlProgram_Select8_Out | m1r1032 | Analog Value (AV) | | -3.402823E+038 | 3.402823E+038 |
| 29 | 137 | m1ControlProgram_And3_Out | m1r1033 | Analog Value (AV) | | -3.402823E+038 | 3.402823E+038 |
| 30 | 138 | m1ControlProgram_Select_Out | m1r1034 | Analog Value (AV) | | -3.402823E+038 | 3.402823E+038 |
| 31 | 139 | m1ControlProgram_And8_Out | m1r1035 | Analog Value (AV) | | -3.402823E+038 | 3.402823E+038 |
| 32 | 140 | m1ControlProgram_Or4_Out | m1r1036 | Analog Value (AV) | | -3.402823E+038 | 3.402823E+038 |
| 33 | 141 | m1ControlProgram_Header_Temp | m1r1037 | Analog Value (AV) | deg F | -3.402823E+038 | 3.402823E+038 |

BACnet Interface Report

Close    Save to Excel Spreadsheet .xls File

SLATE Slave BACnet Interface Report (for Master)

The SLATE Master logic requires five items from each of the SLATE Slaves. Since the Master logic includes the first stage (burner 1), BACnet communication must bring in the five items from burners 2-4 for a total of 15 items.

Master Base:



Slave 2, BurnerStatusOutput (Slave 2 burner state)

We start with "Bind Register 1". This wire sheet register requires the state of Burner 2.
In the "Setup" field, we start by identifying from what device we will be requesting the data.
As noted, this will be Burner 2 (Device=2). The "|" key is located above the "Enter" key on
US keyboards. The following item entered in the "Setup" field is the object type. This can
be found in the BACnet Interface Report in the BACnet Type column. In all cases, the
object type is Analog Value (AV). Enter a dash after the object type followed by the
register that contains the required information. In the case of Bind Register 1, we require
Burner State 2. Reference the BACnet Interface Report column "Object ID" for the
appropriate register (116= BurnerStatusOutput).

Repeat these configurations until all BACnet com for the SLATE Master is complete.

Slave 3, BurnerStatusOutput (Slave 3 burner state)



Slave 4, BurnerStatusOutput (Slave 4 burner state)

**< Communications**  **SLATE Base – BACnet Binding**  **None**

**Register Select:** Bind Register 4 ▼

**Live status:**

BACnet bind 4 data =
0.000    Data read from device

BACnet bind 4 status =    Status code
1
Access - Normal    Status message

**Setup:** Device=2|AV-117

The binding registers can be used to pull (read) data from any BACnet device, such as another SLATE control. Each register has an associated setup register and a status register with a code that identifies a status message. Status messages include reporting of any syntax errors in the setup register.

The setup register contains keyword=value pairs that are separated by the vertical bar character. Spaces are allowed, but optional.

Example setup strings to identify the device, object instance, and property that is read:
Device = 12 | AO-123
Device = 12 | AO-123 | propid = present-value          (Same as above)
Device = 12 | objtype = 1 | instance = 123 | propid = 85   (Same as above using numeric objtype: 1 is AO, 85 is present value)
Device = 48 | BO-456 | propid=persent-value [ 3 ]       (Indexed item: use square brackets.)
Device omitted means this device. objtype omitted means the device object. objtype may be AO,AI,AV,BO,BI,BV,MI,MO,MV with a dash and an instance number, or the keyword objtype= and a BACnet numeric code. If the numeric code is used then the instance keyword is required. propid if omitted means present-value. propid may use a BACnet property name or number. May be indexed.

Slave 2, EffectiveThrottle  (Slave 2 actual throttle)



**< Communications**  **SLATE Base – BACnet Binding**  **None**

**Register Select:** Bind Register 5 ▼

**Live status:**

BACnet bind 5 data =
50.000    Data read from device

BACnet bind 5 status =    Status code
1
Access - Normal    Status message

**Setup:** Device=3|AV-117

The binding registers can be used to pull (read) data from any BACnet device, such as another SLATE control. Each register has an associated setup register and a status register with a code that identifies a status message. Status messages include reporting of any syntax errors in the setup register.

The setup register contains keyword=value pairs that are separated by the vertical bar character. Spaces are allowed, but optional.

Example setup strings to identify the device, object instance, and property that is read:
Device = 12 | AO-123
Device = 12 | AO-123 | propid = present-value          (Same as above)
Device = 12 | objtype = 1 | instance = 123 | propid = 85   (Same as above using numeric objtype: 1 is AO, 85 is present value)
Device = 48 | BO-456 | propid=persent-value [ 3 ]       (Indexed item: use square brackets.)
Device omitted means this device. objtype omitted means the device object. objtype may be AO,AI,AV,BO,BI,BV,MI,MO,MV with a dash and an instance number, or the keyword objtype= and a BACnet numeric code. If the numeric code is used then the instance keyword is required. propid if omitted means present-value. propid may use a BACnet property name or number. May be indexed.

Slave 3, EffectiveThrottle  (Slave 3 actual throttle)

**Register Select:** Bind Register 6

**Live status:**

BACnet bind 6 data =
89.000                          Data read from device

BACnet bind 6 status =          Status code
                                1
Access - Normal
                                Status message

**Setup:** Device=4|AV-117

The binding registers can be used to pull (read) data from any BACnet device, such as another SLATE control. Each register has an associated setup register and a status register with a code that identifies a status message. Status messages include reporting of any syntax errors in the setup register.

The setup register contains keyword=value pairs that are separated by the vertical bar character. Spaces are allowed, but optional.

Example setup strings to identify the device, object instance, and property that is read:
Device = 12 | AO-123
Device = 12 | AO-123 | propid = present-value        (Same as above)
Device = 12 | objtype = 1 | instance = 123 | propid = 85   (Same as above using numeric objtype: 1 is AO, 85 is present value)
Device = 48 | BO-456 | propid=persent-value [ 3 ]     (Indexed item: use square brackets.)
Device omitted means this device. objtype omitted means the device object. objtype may be AO,AI,AV,BO,BI,BV,MI,MO,MV with a dash and an instance number, or the keyword objtype= and a BACnet numeric code. If the numeric code is used then the instance keyword is required. propid if omitted means present-value. propid may use a BACnet property name or number. May be indexed.

Slave 4, EffectiveThrottle  (Slave 4 actual throttle)

< Communications  SLATE Base - BACnet Binding  None

**Register Select:** Bind Register 7

**Live status:**

BACnet bind 7 data =
2.000                           Data read from device

BACnet bind 7 status =          Status code
                                1
Access - Normal
                                Status message

**Setup:** Dev=2|AV-115

The binding registers can be used to pull (read) data from any BACnet device, such as another SLATE control. Each register has an associated setup register and a status register with a code that identifies a status message. Status messages include reporting of any syntax errors in the setup register.

The setup register contains keyword=value pairs that are separated by the vertical bar character. Spaces are allowed, but optional.

Example setup strings to identify the device, object instance, and property that is read:
Device = 12 | AO-123
Device = 12 | AO-123 | propid = present-value        (Same as above)
Device = 12 | objtype = 1 | instance = 123 | propid = 85   (Same as above using numeric objtype: 1 is AO, 85 is present value)
Device = 48 | BO-456 | propid=persent-value [ 3 ]     (Indexed item: use square brackets.)
Device omitted means this device. objtype omitted means the device object. objtype may be AO,AI,AV,BO,BI,BV,MI,MO,MV with a dash and an instance number, or the keyword objtype= and a BACnet numeric code. If the numeric code is used then the instance keyword is required. propid if omitted means present-value. propid may use a BACnet property name or number. May be indexed.

Slave 2, PID_Manual_Lag  (Slave 2 Auto/Manual selector switch)

Slave 3, PID_Manual_Lag  (Slave 3 Auto/Manual selector switch)



Slave 4, PID_Manual_Lag  (Slave 4 Auto/Manual selector switch)

**< Communications**   **SLATE Base - BACnet Binding**   **None**

**Register Select:** Bind Register 10 ▼

**Live status:**

BACnet bind 10 data =
0.000                          Data read from device

BACnet bind 10 status =        Status code
                               1
Access - Normal
                      Status message

**Setup:** Dev=2|AV-120

The binding registers can be used to pull (read) data from any BACnet device, such as another SLATE control. Each register has an associated setup register and a status register with a code that identifies a status message. Status messages include reporting of any syntax errors in the setup register.

The setup register contains keyword=value pairs that are separated by the vertical bar character. Spaces are allowed, but optional.

Example setup strings to identify the device, object instance, and property that is read:
Device = 12 | AO-123
Device = 12 | AO-123 | propid = present-value          (Same as above)
Device = 12 | objtype = 1 | instance = 123 | propid = 85   (Same as above using numeric objtype: 1 is AO, 85 is present value)
Device = 48 | BO-456 | propid=persent-value [ 3 ]        (Indexed item: use square brackets.)
Device omitted means this device. objtype omitted means the device object. objtype may be AO,AI,AV,BO,BI,BV,MI,MO,MV with a dash and an instance number, or the keyword objtype= and a BACnet numeric code. If the numeric code is used then the instance keyword is required. propid if omitted means present-value. propid may use a BACnet property name or number. May be indexed.

Slave 2, InGroupRun  (Slave 2 in Run and in Lead Lag group)



**< Communications**   **SLATE Base - BACnet Binding**   **None**

**Register Select:** Bind Register 11 ▼

**Live status:**

BACnet bind 11 data =
13.000                         Data read from device

BACnet bind 11 status =        Status code
                               1
Access - Normal
                      Status message

**Setup:** Dev=3|AV-120

The binding registers can be used to pull (read) data from any BACnet device, such as another SLATE control. Each register has an associated setup register and a status register with a code that identifies a status message. Status messages include reporting of any syntax errors in the setup register.

The setup register contains keyword=value pairs that are separated by the vertical bar character. Spaces are allowed, but optional.

Example setup strings to identify the device, object instance, and property that is read:
Device = 12 | AO-123
Device = 12 | AO-123 | propid = present-value          (Same as above)
Device = 12 | objtype = 1 | instance = 123 | propid = 85   (Same as above using numeric objtype: 1 is AO, 85 is present value)
Device = 48 | BO-456 | propid=persent-value [ 3 ]        (Indexed item: use square brackets.)
Device omitted means this device. objtype omitted means the device object. objtype may be AO,AI,AV,BO,BI,BV,MI,MO,MV with a dash and an instance number, or the keyword objtype= and a BACnet numeric code. If the numeric code is used then the instance keyword is required. propid if omitted means present-value. propid may use a BACnet property name or number. May be indexed.

Slave 3, InGroupRun  (Slave 3 in Run and in Lead Lag group)

**< Communications**  **SLATE Base - BACnet Binding**  **None**

Register Select: Bind Register 12 ▼

Live status:

BACnet bind 12 data =
13.000
*Data read from device*

BACnet bind 12 status =
*Status code* 1
Access - Normal
*Status message*

Setup: Dev=4|AV-120

The binding registers can be used to pull (read) data from any BACnet device, such as another SLATE control. Each register has an associated setup register and a status register with a code that identifies a status message. Status messages include reporting of any syntax errors in the setup register.

The setup register contains keyword=value pairs that are separated by the vertical bar character. Spaces are allowed, but optional.

Example setup strings to identify the device, object instance, and property that is read:
Device = 12 | AO-123
Device = 12 | AO-123 | propid = present-value          (Same as above)
Device = 12 | objtype = 1 | instance = 123 | propid = 85   (Same as above using numeric objtype: 1 is AO, 85 is present value)
Device = 48 | BO-456 | propid=persent-value [ 3 ]       (Indexed item: use square brackets.)
Device omitted means this device. objtype omitted means the device object. objtype may be AO,AI,AV,BO,BI,BV,MI,MO,MV with a dash and an instance number, or the keyword objtype= and a BACnet numeric code. If the numeric code is used then the instance keyword is required. propid if omitted means present-value. propid may use a BACnet property name or number. May be indexed.

Slave 4, InGroupRun  (Slave 4 in Run and in Lead Lag group)



**< Communications**  **SLATE Base - BACnet Binding**  **None**

Register Select: Bind Register 13 ▼

Live status:

BACnet bind 13 data =
1.000
*Data read from device*

BACnet bind 13 status =
*Status code* 1
Access - Normal
*Status message*

Setup: Dev=2|AV-111

The binding registers can be used to pull (read) data from any BACnet device, such as another SLATE control. Each register has an associated setup register and a status register with a code that identifies a status message. Status messages include reporting of any syntax errors in the setup register.

The setup register contains keyword=value pairs that are separated by the vertical bar character. Spaces are allowed, but optional.

Example setup strings to identify the device, object instance, and property that is read:
Device = 12 | AO-123
Device = 12 | AO-123 | propid = present-value          (Same as above)
Device = 12 | objtype = 1 | instance = 123 | propid = 85   (Same as above using numeric objtype: 1 is AO, 85 is present value)
Device = 48 | BO-456 | propid=persent-value [ 3 ]       (Indexed item: use square brackets.)
Device omitted means this device. objtype omitted means the device object. objtype may be AO,AI,AV,BO,BI,BV,MI,MO,MV with a dash and an instance number, or the keyword objtype= and a BACnet numeric code. If the numeric code is used then the instance keyword is required. propid if omitted means present-value. propid may use a BACnet property name or number. May be indexed.

Slave 2, Manual_On_Off  (Slave 2 demand permissive)

**< Communications**   **SLATE Base – BACnet Binding**   **None**

Register Select: Bind Register 14 ▼

Live status:

BACnet bind 14 data =
1.000
Data read from device

BACnet bind 14 status =
1   Status code
Access - Normal
Status message

Setup: Dev=3|AV-111

The binding registers can be used to pull (read) data from any BACnet device, such as another SLATE control. Each register has an associated setup register and a status register with a code that identifies a status message. Status messages include reporting of any syntax errors in the setup register.

The setup register contains keyword=value pairs that are separated by the vertical bar character. Spaces are allowed, but optional.

Example setup strings to identify the device, object instance, and property that is read:
Device = 12 | AO-123
Device = 12 | AO-123 | propid = present-value          (Same as above)
Device = 12 | objtype = 1 | instance = 123 | propid = 85   (Same as above using numeric objtype: 1 is AO, 85 is present value)
Device = 48 | BO-456 | propid=persent-value [ 3 ]     (Indexed item: use square brackets.)
Device omitted means this device. objtype omitted means the device object. objtype may be AO,AI,AV,BO,BI,BV,MI,MO,MV with a dash and an instance number, or the keyword objtype= and a BACnet numeric code. If the numeric code is used then the instance keyword is required. propid if omitted means present-value. propid may use a BACnet property name or number. May be indexed.

Slave 3, Manual_On_Off  (Slave 3 demand permissive)

**< Communications**   **SLATE Base – BACnet Binding**   **None**

Register Select: Bind Register 15 ▼

Live status:

BACnet bind 15 data =
1.000
Data read from device

BACnet bind 15 status =
1   Status code
Access - Normal
Status message

Setup: Dev=4|AV-111

The binding registers can be used to pull (read) data from any BACnet device, such as another SLATE control. Each register has an associated setup register and a status register with a code that identifies a status message. Status messages include reporting of any syntax errors in the setup register.

The setup register contains keyword=value pairs that are separated by the vertical bar character. Spaces are allowed, but optional.

Example setup strings to identify the device, object instance, and property that is read:
Device = 12 | AO-123
Device = 12 | AO-123 | propid = present-value          (Same as above)
Device = 12 | objtype = 1 | instance = 123 | propid = 85   (Same as above using numeric objtype: 1 is AO, 85 is present value)
Device = 48 | BO-456 | propid=persent-value [ 3 ]     (Indexed item: use square brackets.)
Device omitted means this device. objtype omitted means the device object. objtype may be AO,AI,AV,BO,BI,BV,MI,MO,MV with a dash and an instance number, or the keyword objtype= and a BACnet numeric code. If the numeric code is used then the instance keyword is required. propid if omitted means present-value. propid may use a BACnet property name or number. May be indexed.

Slave 4, Manual_On_Off  (Slave 4 demand permissive)

**SLATE Master BACnet Interface Report**

In the Slave SLATE device click on the Reports button.
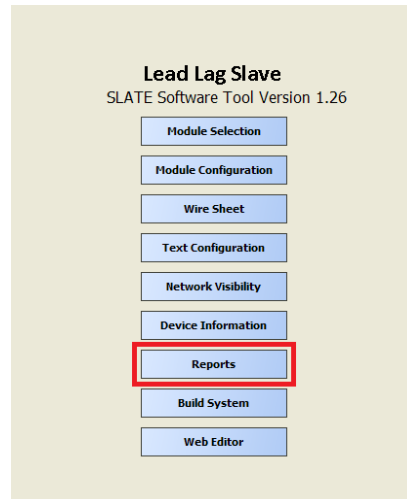


Click on the BACnet Interface Report button.



NOTE: Before a report can be generated, make sure you first Build once the Lead Lag station is loaded.

**Slave Bases:**

**SLATE Master BACnet Interface Report for Slave 2**

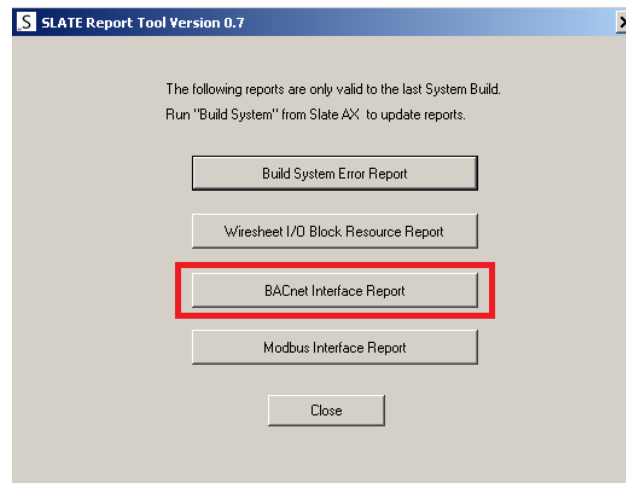| | Object ID | Object Name | Resource | BACnet Type | Units | Min Value | Max Value |
|---|---|---|---|---|---|---|---|
| 1 | 123 | m1ControlProgram_Min_Mod_Value | m1r1001 | Analog Value (AV) | % | -3.402823E+038 | 3.402823E+038 |
| 2 | 124 | m1ControlProgram_InterstageDelay | m1r1003 | Analog Value (AV) | s | -3.402823E+038 | 3.402823E+038 |
| 3 | 125 | m1ControlProgram_Error_Threshold | m1r1004 | Analog Value (AV) | | -3.402823E+038 | 3.402823E+038 |
| 4 | 126 | m1ControlProgram_Err_Timer | m1r1005 | Analog Value (AV) | s | -3.402823E+038 | 3.402823E+038 |
| 5 | 127 | m1ControlProgram_DropStageThreshold | m1r1006 | Analog Value (AV) | % | -3.402823E+038 | 3.402823E+038 |
| 6 | 128 | m1ControlProgram_NextStageThresh | m1r1007 | Analog Value (AV) | % | -3.402823E+038 | 3.402823E+038 |
| 7 | 129 | m1ControlProgram_BurnerDemand_3 | m1r1008 | Analog Value (AV) | | -3.402823E+038 | 3.402823E+038 |
| 8 | 130 | m1ControlProgram_BurnerDemand_4 | m1r1009 | Analog Value (AV) | | -3.402823E+038 | 3.402823E+038 |
| 9 | 131 | m1ControlProgram_BurnerDemand_2 | m1r1010 | Analog Value (AV) | | -3.402823E+038 | 3.402823E+038 |
| 10 | 132 | m1ControlProgram_Throttle2 | m1r1011 | Analog Value (AV) | deg F | -3.402823E+038 | 3.402823E+038 |
| 11 | 133 | m1ControlProgram_Throttle3 | m1r1012 | Analog Value (AV) | deg F | -3.402823E+038 | 3.402823E+038 |
| 12 | 134 | m1ControlProgram_Throttle4 | m1r1013 | Analog Value (AV) | deg F | -3.402823E+038 | 3.402823E+038 |
| 13 | 135 | m1ControlProgram_SensorValue | m1r1015 | Analog Value (AV) | deg F | -3.402823E+038 | 3.402823E+038 |
| 14 | 136 | m1ControlProgram_StagesActiveCompare | m1r1016 | Analog Value (AV) | | -3.402823E+038 | 3.402823E+038 |
| 15 | 137 | m1ControlProgram_StageDriver1 | m1r1017 | Analog Value (AV) | | -3.402823E+038 | 3.402823E+038 |
| 16 | 138 | m1ControlProgram_ControllerDemand | m1r1018 | Analog Value (AV) | | -3.402823E+038 | 3.402823E+038 |
| 17 | 139 | m1ControlProgram_Counter | m1r1019 | Analog Value (AV) | | -3.402823E+038 | 3.402823E+038 |
| 18 | 140 | m1ControlProgram_Stage1 | m1r1020 | Analog Value (AV) | | -3.402823E+038 | 3.402823E+038 |
| 19 | 141 | m1ControlProgram_Stage2 | m1r1021 | Analog Value (AV) | | -3.402823E+038 | 3.402823E+038 |
| 20 | 142 | m1ControlProgram_Stage3 | m1r1022 | Analog Value (AV) | | -3.402823E+038 | 3.402823E+038 |
| 21 | 143 | m1ControlProgram_Stage4 | m1r1023 | Analog Value (AV) | | -3.402823E+038 | 3.402823E+038 |
| 22 | 144 | m1ControlProgram_And2_Output | m1r1024 | Analog Value (AV) | | -3.402823E+038 | 3.402823E+038 |
| 23 | 145 | m1ControlProgram_And3_Output | m1r1025 | Analog Value (AV) | | -3.402823E+038 | 3.402823E+038 |
| 24 | 146 | m1ControlProgram_And1_Output | m1r1026 | Analog Value (AV) | | -3.402823E+038 | 3.402823E+038 |
| 25 | 147 | m1ControlProgram_Compare4_Output | m1r1028 | Analog Value (AV) | | -3.402823E+038 | 3.402823E+038 |
| 26 | 148 | m1ControlProgram_Compare6_Out | m1r1029 | Analog Value (AV) | | -3.402823E+038 | 3.402823E+038 |
| 27 | 149 | m1ControlProgram_Compare16_Out | m1r1030 | Analog Value (AV) | | -3.402823E+038 | 3.402823E+038 |
| 28 | 150 | m1ControlProgram_Throttle_1_out | m1r1031 | Analog Value (AV) | % | -3.402823E+038 | 3.402823E+038 |
| 29 | 151 | m1ControlProgram_CounterValue | m1r1032 | Analog Value (AV) | | -3.402823E+038 | 3.402823E+038 |
| 30 | 152 | m1ControlProgram_Select16_Out | m1r1033 | Analog Value (AV) | | -3.402823E+038 | 3.402823E+038 |
| 31 | 153 | m1ControlProgram_OneShot7_Out | m1r1034 | Analog Value (AV) | | -3.402823E+038 | 3.402823E+038 |
| 32 | 154 | m1ControlProgram_Compare17_Out | m1r1035 | Analog Value (AV) | | -3.402823E+038 | 3.402823E+038 |
| 33 | 155 | m1ControlProgram_Compare18_Out | m1r1036 | Analog Value (AV) | | -3.402823E+038 | 3.402823E+038 |
| 34 | 156 | m1ControlProgram_And7_Out | m1r1037 | Analog Value (AV) | | -3.402823E+038 | 3.402823E+038 |
| 35 | 157 | m1ControlProgram_Select17_out | m1r1038 | Analog Value (AV) | | -3.402823E+038 | 3.402823E+038 |
| 36 | 158 | m1ControlProgram_Select18_out | m1r1039 | Analog Value (AV) | | -3.402823E+038 | 3.402823E+038 |

Required Data for Slave 2 (from Master):          Object ID

1 Burner 2 demand   command                      131
2 Burner 2 throttle command                      132
3 Header temperature                             135

Register Select: Bind Register 1 ▼

Live status:

BACnet bind 1 data =
0.000
Data read from device

BACnet bind 1 status =
Status code
1
Access - Normal
Status message

Setup: Dev=1|AV-131

The binding registers can be used to pull (read) data from any BACnet device, such as another SLATE control. Each register has an associated setup register and a status register with a code that identifies a status message. Status messages include reporting of any syntax errors in the setup register.

The setup register contains keyword=value pairs that are separated by the vertical bar character. Spaces are allowed, but optional.

Example setup strings to identify the device, object instance, and property that is read:
  Device = 12 | AO-123
  Device = 12 | AO-123 | propid = present-value          (Same as above)
  Device = 12 | objtype = 1 | instance = 123 | propid = 85   (Same as above using numeric objtype: 1 is AO, 85 is present value)
  Device = 48 | BO-456 | propid=persent-value [ 3 ]          (Indexed item: use square brackets.)
Device omitted means this device. objtype omitted means the device object. objtype may be AO,AI,AV,BO,BI,BV,MI,MO,MV

Master: BurnerDemand_2  (Slave 2 demand command from Master)



Register Select: Bind Register 2 ▼

Live status:

BACnet bind 2 data =
50.000
Data read from device

BACnet bind 2 status =
Status code
1
Access - Normal
Status message

Setup: Dev=1|AV-132

The binding registers can be used to pull (read) data from any BACnet device, such as another SLATE control. Each register has an associated setup register and a status register with a code that identifies a status message. Status messages include reporting of any syntax errors in the setup register.

The setup register contains keyword=value pairs that are separated by the vertical bar character. Spaces are allowed, but optional.

Example setup strings to identify the device, object instance, and property that is read:
  Device = 12 | AO-123
  Device = 12 | AO-123 | propid = present-value          (Same as above)
  Device = 12 | objtype = 1 | instance = 123 | propid = 85   (Same as above using numeric objtype: 1 is AO, 85 is present value)
  Device = 48 | BO-456 | propid=persent-value [ 3 ]          (Indexed item: use square brackets.)
Device omitted means this device. objtype omitted means the device object. objtype may be AO,AI,AV,BO,BI,BV,MI,MO,MV

Master: Throttle2 (Slave 2 throttle command from Master)

The binding registers can be used to pull (read) data from any BACnet device, such as another SLATE control. Each register has an associated setup register and a status register with a code that identifies a status message. Status messages include reporting of any syntax errors in the setup register.

The setup register contains keyword=value pairs that are separated by the vertical bar character. Spaces are allowed, but optional.

**Register Select:** Bind Register 3 ▼

**Live status:**

BACnet bind 3 data =

72.490 — Data read from device

BACnet bind 3 status = — Status code 1

Access - Normal — Status message

**Setup:** Dev=1|AV-135

Example setup strings to identify the device, object instance, and property that is read:

Device = 12 | AO-123

Device = 12 | AO-123 | propid = present-value          (Same as above)

Device = 12 | objtype = 1 | instance = 123 | propid = 85    (Same as above using numeric objtype: 1 is AO, 85 is present value)

Device = 48 | BO-456 | propid=persent-value [ 3 ]          (Indexed item: use square brackets.)

Device omitted means this device. objtype omitted means the device object. objtype may be AO,AI,AV,BO,BI,BV,MI,MO,MV

Master: SensorValue (header sensor)

**Burner 3:**

**SLATE Master BACnet Interface Report for Slave 3**

| | Object ID | Object Name | Resource | BACnet Type | Units | Min Value | Max Value |
|---|---|---|---|---|---|---|---|
| 1 | 123 | m1ControlProgram_Min_Mod_Value | m1r1001 | Analog Value (AV) | % | -3.402823E+038 | 3.402823E+038 |
| 2 | 124 | m1ControlProgram_InterstageDelay | m1r1003 | Analog Value (AV) | s | -3.402823E+038 | 3.402823E+038 |
| 3 | 125 | m1ControlProgram_Error_Threshold | m1r1004 | Analog Value (AV) | | -3.402823E+038 | 3.402823E+038 |
| 4 | 126 | m1ControlProgram_Err_Timer | m1r1005 | Analog Value (AV) | s | -3.402823E+038 | 3.402823E+038 |
| 5 | 127 | m1ControlProgram_DropStageThreshold | m1r1006 | Analog Value (AV) | % | -3.402823E+038 | 3.402823E+038 |
| 6 | 128 | m1ControlProgram_NextStageThresh | m1r1007 | Analog Value (AV) | % | -3.402823E+038 | 3.402823E+038 |
| 7 | 129 | m1ControlProgram_BurnerDemand_3 | m1r1008 | Analog Value (AV) | | -3.402823E+038 | 3.402823E+038 |
| 8 | 130 | m1ControlProgram_BurnerDemand_4 | m1r1009 | Analog Value (AV) | | -3.402823E+038 | 3.402823E+038 |
| 9 | 131 | m1ControlProgram_BurnerDemand_2 | m1r1010 | Analog Value (AV) | | -3.402823E+038 | 3.402823E+038 |
| 10 | 132 | m1ControlProgram_Throttle2 | m1r1011 | Analog Value (AV) | deg F | -3.402823E+038 | 3.402823E+038 |
| 11 | 133 | m1ControlProgram_Throttle3 | m1r1012 | Analog Value (AV) | deg F | -3.402823E+038 | 3.402823E+038 |
| 12 | 134 | m1ControlProgram_Throttle4 | m1r1013 | Analog Value (AV) | deg F | -3.402823E+038 | 3.402823E+038 |
| 13 | 135 | m1ControlProgram_SensorValue | m1r1015 | Analog Value (AV) | deg F | -3.402823E+038 | 3.402823E+038 |
| 14 | 136 | m1ControlProgram_StagesActiveCompare | m1r1016 | Analog Value (AV) | | -3.402823E+038 | 3.402823E+038 |
| 15 | 137 | m1ControlProgram_StageDriver1 | m1r1017 | Analog Value (AV) | | -3.402823E+038 | 3.402823E+038 |
| 16 | 138 | m1ControlProgram_ControllerDemand | m1r1018 | Analog Value (AV) | | -3.402823E+038 | 3.402823E+038 |
| 17 | 139 | m1ControlProgram_Counter | m1r1019 | Analog Value (AV) | | -3.402823E+038 | 3.402823E+038 |
| 18 | 140 | m1ControlProgram_Stage1 | m1r1020 | Analog Value (AV) | | -3.402823E+038 | 3.402823E+038 |
| 19 | 141 | m1ControlProgram_Stage2 | m1r1021 | Analog Value (AV) | | -3.402823E+038 | 3.402823E+038 |
| 20 | 142 | m1ControlProgram_Stage3 | m1r1022 | Analog Value (AV) | | -3.402823E+038 | 3.402823E+038 |
| 21 | 143 | m1ControlProgram_Stage4 | m1r1023 | Analog Value (AV) | | -3.402823E+038 | 3.402823E+038 |
| 22 | 144 | m1ControlProgram_And2_Output | m1r1024 | Analog Value (AV) | | -3.402823E+038 | 3.402823E+038 |
| 23 | 145 | m1ControlProgram_And3_Output | m1r1025 | Analog Value (AV) | | -3.402823E+038 | 3.402823E+038 |
| 24 | 146 | m1ControlProgram_And1_Output | m1r1026 | Analog Value (AV) | | -3.402823E+038 | 3.402823E+038 |
| 25 | 147 | m1ControlProgram_Compare4_Output | m1r1028 | Analog Value (AV) | | -3.402823E+038 | 3.402823E+038 |
| 26 | 148 | m1ControlProgram_Compare6_Out | m1r1029 | Analog Value (AV) | | -3.402823E+038 | 3.402823E+038 |
| 27 | 149 | m1ControlProgram_Compare16_Out | m1r1030 | Analog Value (AV) | | -3.402823E+038 | 3.402823E+038 |
| 28 | 150 | m1ControlProgram_Throttle_1_out | m1r1031 | Analog Value (AV) | % | -3.402823E+038 | 3.402823E+038 |
| 29 | 151 | m1ControlProgram_CounterValue | m1r1032 | Analog Value (AV) | | -3.402823E+038 | 3.402823E+038 |
| 30 | 152 | m1ControlProgram_Select16_Out | m1r1033 | Analog Value (AV) | | -3.402823E+038 | 3.402823E+038 |
| 31 | 153 | m1ControlProgram_OneShot7_Out | m1r1034 | Analog Value (AV) | | -3.402823E+038 | 3.402823E+038 |
| 32 | 154 | m1ControlProgram_Compare17_Out | m1r1035 | Analog Value (AV) | | -3.402823E+038 | 3.402823E+038 |
| 33 | 155 | m1ControlProgram_Compare18_Out | m1r1036 | Analog Value (AV) | | -3.402823E+038 | 3.402823E+038 |
| 34 | 156 | m1ControlProgram_And7_Out | m1r1037 | Analog Value (AV) | | -3.402823E+038 | 3.402823E+038 |
| 35 | 157 | m1ControlProgram_Select17_out | m1r1038 | Analog Value (AV) | | -3.402823E+038 | 3.402823E+038 |
| 36 | 158 | m1ControlProgram_Select18_out | m1r1039 | Analog Value (AV) | | -3.402823E+038 | 3.402823E+038 |

| Required Data for Slave 3 (from Master): | Object ID |
|---|---|
| 1 Burner 3 demand command | 129 |
| 2 Burner 3 throttle command | 133 |
| 3 Header temperature | 135 |

Master: BurnerDemand_3 (Slave 3 demand command from Master)



Master: Throttle3 (Slave 3 throttle command from Master)

**Register Select:** Bind Register 3 ▼

**Live status:**

BACnet bind 3 data =

73.090                    Data read from device

BACnet bind 3 status =            Status code
                                  1
Access - Normal
                      Status message

**Setup:** Dev=1|AV-135

The binding registers can be used to pull (read) data from any BACnet device, such as another SLATE control. Each register has an associated setup register and a status register with a code that identifies a status message. Status messages include reporting of any syntax errors in the setup register.

The setup register contains keyword=value pairs that are separated by the vertical bar character. Spaces are allowed, but optional.

Example setup strings to identify the device, object instance, and property that is read:
 Device = 12 | AO-123
 Device = 12 | AO-123 | propid = present-value          (Same as above)
 Device = 12 | objtype = 1 | instance = 123 | propid = 85    (Same as above using numeric objtype: 1 is AO, 85 is present value)
 Device = 48 | BO-456 | propid=persent-value [ 3 ]       (Indexed item: use square brackets.)
Device omitted means this device. objtype omitted means the device object. objtype may be AO,AI,AV,BO,BI,BV,MI,MO,MV with a dash and an instance number, or the keyword objtype= and a BACnet numeric code. If the numeric code is used then the instance keyword is required. propid if omitted means present-value. propid may use a BACnet property name or number. May be indexed.

Master: SensorValue (header sensor)

**Burner 4:**
**SLATE Master BACnet Interface Report for Slave 4**

| | Object ID | Object Name | Resource | BACnet Type | Units | Min Value | Max Value |
|---|---|---|---|---|---|---|---|
| 1 | 123 | m1ControlProgram_Min_Mod_Value | m1r1001 | Analog Value (AV) | % | -3.402823E+038 | 3.402823E+038 |
| 2 | 124 | m1ControlProgram_InterstageDelay | m1r1003 | Analog Value (AV) | s | -3.402823E+038 | 3.402823E+038 |
| 3 | 125 | m1ControlProgram_Error_Threshold | m1r1004 | Analog Value (AV) | | -3.402823E+038 | 3.402823E+038 |
| 4 | 126 | m1ControlProgram_Err_Timer | m1r1005 | Analog Value (AV) | s | -3.402823E+038 | 3.402823E+038 |
| 5 | 127 | m1ControlProgram_DropStageThreshold | m1r1006 | Analog Value (AV) | % | -3.402823E+038 | 3.402823E+038 |
| 6 | 128 | m1ControlProgram_NextStageThresh | m1r1007 | Analog Value (AV) | % | -3.402823E+038 | 3.402823E+038 |
| 7 | 129 | m1ControlProgram_BurnerDemand_3 | m1r1008 | Analog Value (AV) | | -3.402823E+038 | 3.402823E+038 |
| 8 | 130 | m1ControlProgram_BurnerDemand_4 | m1r1009 | Analog Value (AV) | | -3.402823E+038 | 3.402823E+038 |
| 9 | 131 | m1ControlProgram_BurnerDemand_2 | m1r1010 | Analog Value (AV) | | -3.402823E+038 | 3.402823E+038 |
| 10 | 132 | m1ControlProgram_Throttle2 | m1r1011 | Analog Value (AV) | deg F | -3.402823E+038 | 3.402823E+038 |
| 11 | 133 | m1ControlProgram_Throttle3 | m1r1012 | Analog Value (AV) | deg F | -3.402823E+038 | 3.402823E+038 |
| 12 | 134 | m1ControlProgram_Throttle4 | m1r1013 | Analog Value (AV) | deg F | -3.402823E+038 | 3.402823E+038 |
| 13 | 135 | m1ControlProgram_SensorValue | m1r1015 | Analog Value (AV) | deg F | -3.402823E+038 | 3.402823E+038 |
| 14 | 136 | m1ControlProgram_StagesActiveCompare | m1r1016 | Analog Value (AV) | | -3.402823E+038 | 3.402823E+038 |
| 15 | 137 | m1ControlProgram_StageDriver1 | m1r1017 | Analog Value (AV) | | -3.402823E+038 | 3.402823E+038 |
| 16 | 138 | m1ControlProgram_ControllerDemand | m1r1018 | Analog Value (AV) | | -3.402823E+038 | 3.402823E+038 |
| 17 | 139 | m1ControlProgram_Counter | m1r1019 | Analog Value (AV) | | -3.402823E+038 | 3.402823E+038 |
| 18 | 140 | m1ControlProgram_Stage1 | m1r1020 | Analog Value (AV) | | -3.402823E+038 | 3.402823E+038 |
| 19 | 141 | m1ControlProgram_Stage2 | m1r1021 | Analog Value (AV) | | -3.402823E+038 | 3.402823E+038 |
| 20 | 142 | m1ControlProgram_Stage3 | m1r1022 | Analog Value (AV) | | -3.402823E+038 | 3.402823E+038 |
| 21 | 143 | m1ControlProgram_Stage4 | m1r1023 | Analog Value (AV) | | -3.402823E+038 | 3.402823E+038 |
| 22 | 144 | m1ControlProgram_And2_Output | m1r1024 | Analog Value (AV) | | -3.402823E+038 | 3.402823E+038 |
| 23 | 145 | m1ControlProgram_And3_Output | m1r1025 | Analog Value (AV) | | -3.402823E+038 | 3.402823E+038 |
| 24 | 146 | m1ControlProgram_And1_Output | m1r1026 | Analog Value (AV) | | -3.402823E+038 | 3.402823E+038 |
| 25 | 147 | m1ControlProgram_Compare4_Output | m1r1028 | Analog Value (AV) | | -3.402823E+038 | 3.402823E+038 |
| 26 | 148 | m1ControlProgram_Compare6_Out | m1r1029 | Analog Value (AV) | | -3.402823E+038 | 3.402823E+038 |
| 27 | 149 | m1ControlProgram_Compare16_Out | m1r1030 | Analog Value (AV) | | -3.402823E+038 | 3.402823E+038 |
| 28 | 150 | m1ControlProgram_Throttle_1_out | m1r1031 | Analog Value (AV) | % | -3.402823E+038 | 3.402823E+038 |
| 29 | 151 | m1ControlProgram_CounterValue | m1r1032 | Analog Value (AV) | | -3.402823E+038 | 3.402823E+038 |
| 30 | 152 | m1ControlProgram_Select16_Out | m1r1033 | Analog Value (AV) | | -3.402823E+038 | 3.402823E+038 |
| 31 | 153 | m1ControlProgram_OneShot7_Out | m1r1034 | Analog Value (AV) | | -3.402823E+038 | 3.402823E+038 |
| 32 | 154 | m1ControlProgram_Compare17_Out | m1r1035 | Analog Value (AV) | | -3.402823E+038 | 3.402823E+038 |
| 33 | 155 | m1ControlProgram_Compare18_Out | m1r1036 | Analog Value (AV) | | -3.402823E+038 | 3.402823E+038 |
| 34 | 156 | m1ControlProgram_And7_Out | m1r1037 | Analog Value (AV) | | -3.402823E+038 | 3.402823E+038 |
| 35 | 157 | m1ControlProgram_Select17_out | m1r1038 | Analog Value (AV) | | -3.402823E+038 | 3.402823E+038 |
| 36 | 158 | m1ControlProgram_Select18_out | m1r1039 | Analog Value (AV) | | -3.402823E+038 | 3.402823E+038 |

| Required Data for Slave 4 (from Master): | Object ID |
|---|---|
| 1 Burner 3 demand command | 130 |
| 2 Burner 3 throttle command | 134 |
| 3 Header temperature | 135 |

**Register Select:** Bind Register 1

**Live status:**

BACnet bind 1 data =
  1.000 *Data read from device*

BACnet bind 1 status = *Status code* 1
  Access - Normal *Status message*

**Setup:** Dev=1|AV-130

The binding registers can be used to pull (read) data from any BACnet device, such as another SLATE control. Each register has an associated setup register and a status register with a code that identifies a status message. Status messages include reporting of any syntax errors in the setup register.

The setup register contains keyword=value pairs that are separated by the vertical bar character. Spaces are allowed, but optional.

Example setup strings to identify the device, object instance, and property that is read:
Device = 12 | AO-123
Device = 12 | AO-123 | propid = present-value          (Same as above)
Device = 12 | objtype = 1 | instance = 123 | propid = 85   (Same as above using numeric objtype: 1 is AO, 85 is present value)
Device = 48 | BO-456 | propid=persent-value [ 3 ]      (Indexed item: use square brackets.)
Device omitted means this device. objtype omitted means the device object. objtype may be AO,AI,AV,BO,BI,BV,MI,MO,MV with a dash and an instance number, or the keyword objtype= and a BACnet numeric code. If the numeric code is used then the instance keyword is required. propid if omitted means present-value. propid may use a BACnet property name or number. May be indexed.

Master: BurnerDemand_4 (Slave 4 demand command from Master)



**Register Select:** Bind Register 2

**Live status:**

BACnet bind 2 data =
  89.000 *Data read from device*

BACnet bind 2 status = *Status code* 1
  Access - Normal *Status message*

**Setup:** Dev=1|AV-134

The binding registers can be used to pull (read) data from any BACnet device, such as another SLATE control. Each register has an associated setup register and a status register with a code that identifies a status message. Status messages include reporting of any syntax errors in the setup register.

The setup register contains keyword=value pairs that are separated by the vertical bar character. Spaces are allowed, but optional.

Example setup strings to identify the device, object instance, and property that is read:
Device = 12 | AO-123
Device = 12 | AO-123 | propid = present-value          (Same as above)
Device = 12 | objtype = 1 | instance = 123 | propid = 85   (Same as above using numeric objtype: 1 is AO, 85 is present value)
Device = 48 | BO-456 | propid=persent-value [ 3 ]      (Indexed item: use square brackets.)
Device omitted means this device. objtype omitted means the device object. objtype may be AO,AI,AV,BO,BI,BV,MI,MO,MV with a dash and an instance number, or the keyword objtype= and a BACnet numeric code. If the numeric code is used then the instance keyword is required. propid if omitted means present-value. propid may use a BACnet property name or number. May be indexed.

Master: Throttle4 (Slave 4 throttle command from Master)

**Register Select:** Bind Register 3 ▼

**Live status:**

BACnet bind 3 data =
73.090    Data read from device

BACnet bind 3 status =    Status code
1
Access - Normal
Status message

**Setup:** Dev=1|AV-135

The binding registers can be used to pull (read) data from any BACnet device, such as another SLATE control. Each register has an associated setup register and a status register with a code that identifies a status message. Status messages include reporting of any syntax errors in the setup register.

The setup register contains keyword=value pairs that are separated by the vertical bar character. Spaces are allowed, but optional.

Example setup strings to identify the device, object instance, and property that is read:
Device = 12 | AO-123
Device = 12 | AO-123 | propid = present-value        (Same as above)
Device = 12 | objtype = 1 | instance = 123 | propid = 85    (Same as above using numeric objtype: 1 is AO, 85 is present value)
Device = 48 | BO-456 | propid=persent-value [ 3 ]    (Indexed item: use square brackets.)
Device omitted means this device. objtype omitted means the device object. objtype may be AO,AI,AV,BO,BI,BV,MI,MO,MV with a dash and an instance number, or the keyword objtype= and a BACnet numeric code. If the numeric code is used then the instance keyword is required. propid if omitted means present-value. propid may use a BACnet property name or number. May be indexed.

Master: SensorValue (header sensor)

All configurations are "permanent" unless changes are made to either Master or SLAVE wire sheets.