



**TECHNICAL INSTRUCTION DOCUMENT**

**QUICK START GUIDE**

**ProtoNode FPC-N34 and FPC-N35**



**AERCO Serial (RER)  
ProtoNode FPC-N34  
(Part Number 64129)**



**AERCO LonWorks (LER)  
ProtoNode FPC-N35  
(Part Number 64130)**



*Latest Update: 01/26/2017*

**Technical Support**

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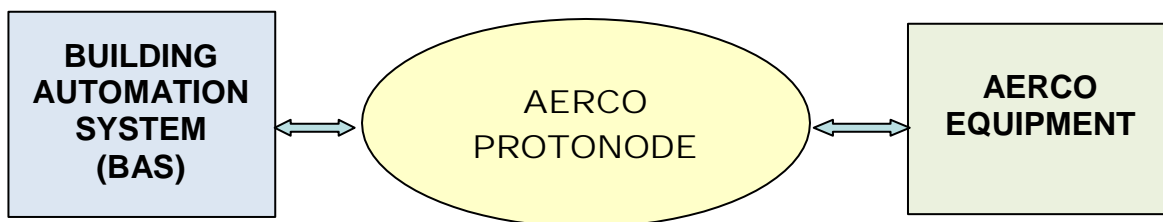


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**SECTION 1: INTRODUCTION**

Follow the instructions on the next page to quickly wire and set up the AERCO ProtoNode between your Building Automation System (BAS) and AERCO equipment, including Boiler Management System (ACS/BMS/BMSII), “C-more” Control on Benchmark (BMK) boilers, Innovation (INN) heaters, KC1000 boilers and heaters, Boiler Control Module (BCM) on Modulux (MLX) boilers, Eurotherm Controls on AERCO Electronic Control System (ECS), “Smartplate” units, and AM Series boilers and heaters.



**SECTION 2: CHOOSING WIRING/SETUP CONFIGURATION**

From the Configuration Instruction Contents below, select one instruction from Sections 5.1 to 5.6 applicable for the required BAS to ProtoNode connection, and the other instruction from Sections 6.1 to 6.7 for connecting the ProtoNode to the applicable boiler and heater equipment.

Next, go to Section 7 for instructions to auto-discover or manually select your equipment using the DIP switches. For WHM or BST, this step is not needed. See the ProtoNode user manual (GF-150) for more details.

**CONFIGURATION INSTRUCTION CONTENTS**

**SECTION 5: CONNECTING BAS TO PROTONODE.....4**

- 5.1 - BACnet MS/TP to AERCO ProtoNode FPC-N34..... 5
- 5.2 - BACnet IP to AERCO ProtoNode FPC-N34 ..... 6
- 5.3 - Modbus TCP to AERCO ProtoNode FPC-N34..... 7
- 5.4 - Modbus RTU to AERCO ProtoNode FPC-N34 ..... 8
- 5.5 - Johnson N2 to AERCO ProtoNode FPC-N34 ..... 9
- 5.6 - LON to AERCO ProtoNode FPC-N35 ..... 10

**SECTION 6: CONNECTING PROTONODE TO EQUIPMENT .....11**

- 6.1 - AERCO ProtoNode to Boiler Management System (BMS-168)..... 11
- 6.2 - AERCO ProtoNode to ACS or BMS II..... 12
- 6.3 - AERCO ProtoNode to C-More *without* BST or WHM ..... 13
- 6.4 - AERCO ProtoNode to C-More *with* BST or WHM ..... 14
- 6.5 - AERCO ProtoNode to BCM (on MLX or MLX EXT Boiler) ..... 15
- 6.6 - AERCO ProtoNode To Eurotherm (on ECS or SmartPlate)..... 16
- 6.7 - AERCO ProtoNode to AM Series Boiler or Heater ..... 17

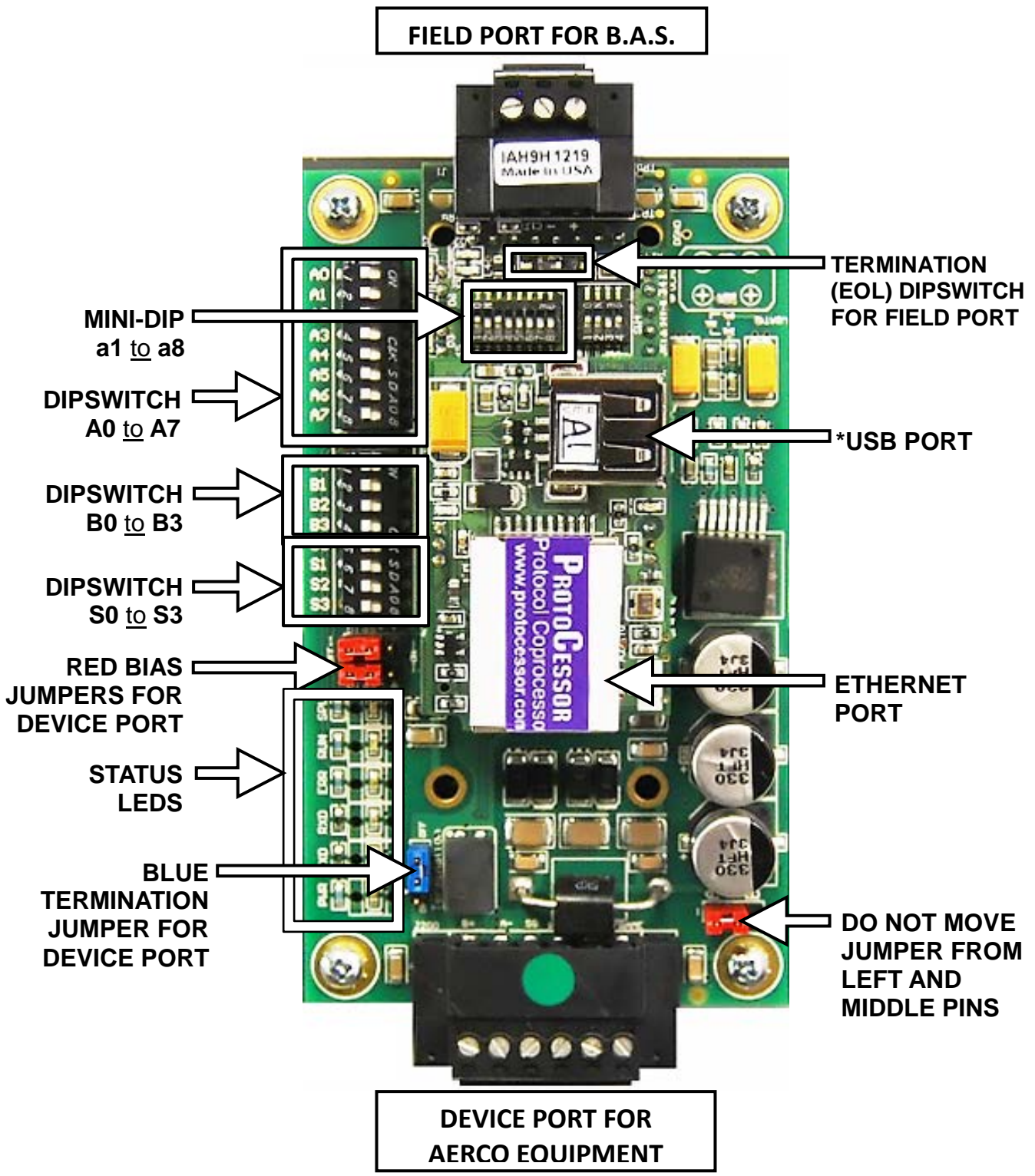
**SECTION 7: UNIT SELECTION .....18**

- 7.1 - Auto-Discovery Unit Selection ..... 18
- 7.2 - Manual Unit Selection ..... 18

NOTE:  
**The AERCO ProtoNode uses from 12 – 24 VAC, or 9 to 30 VDC power source. Check the ProtoNode manual (GF-150) for the current draw at the different voltages.**

**IMPORTANT NOTE!**  
**BEFORE CONNECTING THE PROTONODE TO YOUR SYSTEM, BE SURE THAT YOUR SYSTEM IS FIRST OPERATING PROPERLY.**

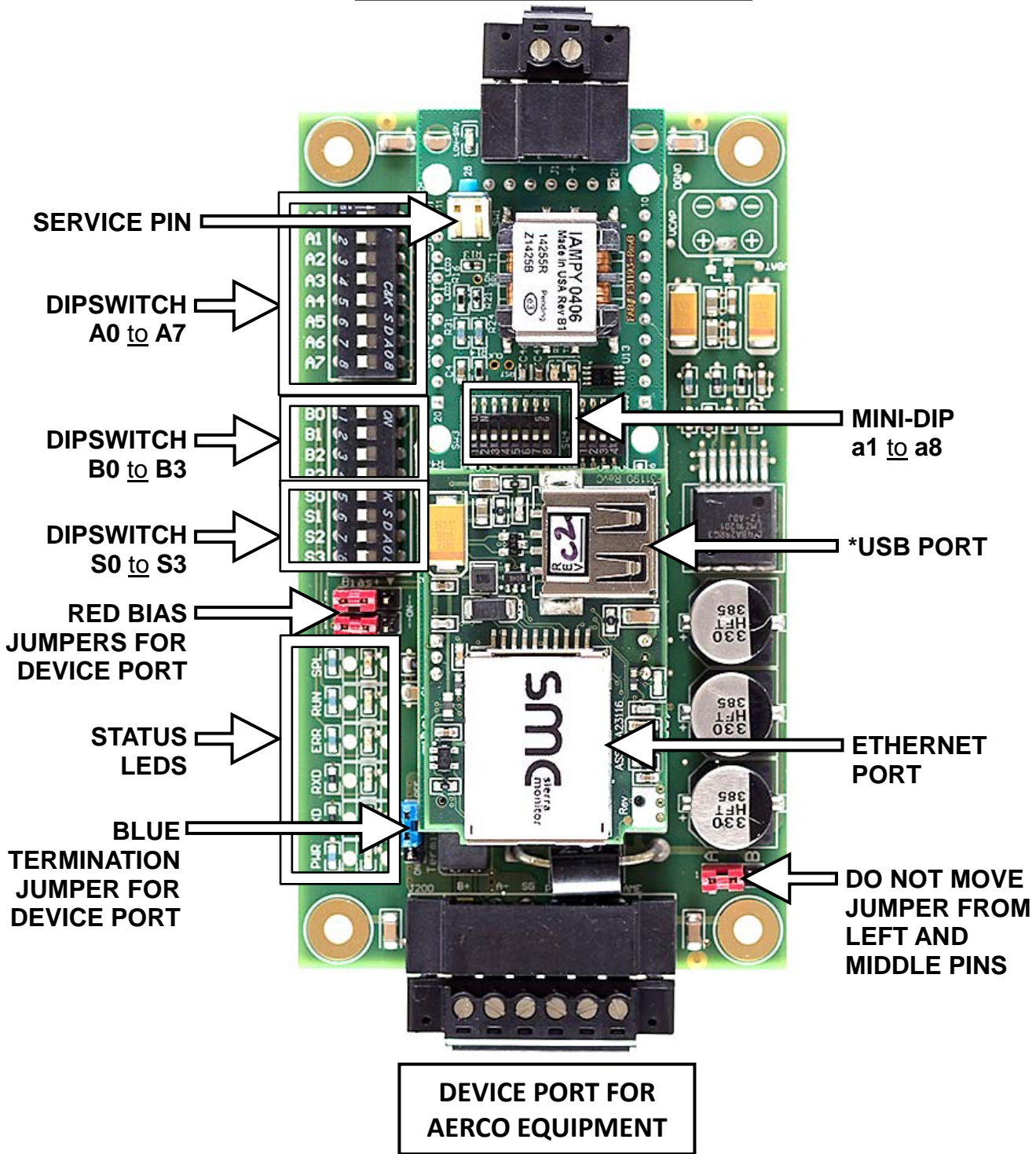
**SECTION 3: PROTONODE FPC-N34 (RER) HARDWARE REFERENCE**



**\* IMPORTANT NOTE!**  
 Your hardware should include a USB port as shown above. If it does not, you cannot use this manual, as the device will not support the Auto Discovery function.

**SECTION 4: PROTONODE FPC-N35 (LER) HARDWARE REFERENCE**

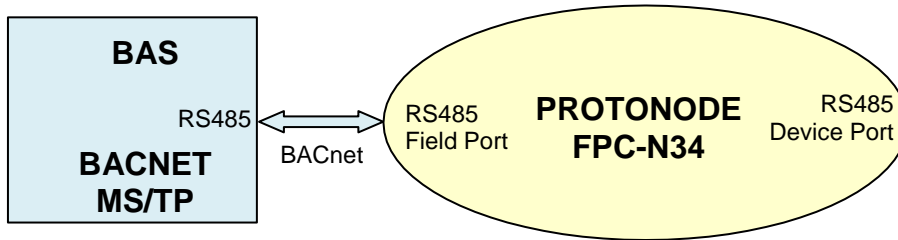
**LON FIELD PORT FOR B.A.S.**



**\* IMPORTANT NOTE!**  
 Your hardware should include a USB port as shown above. If it does not, you cannot use this manual, as the device will not support the Auto Discovery function.

**SECTION 5: CONNECTING BAS TO PROTONODE**

**5.1 - BACnet MS/TP to AERCO ProtoNode FPC-N34**



**Field Port:** Wire “+” terminal to “RS 485+”, “-” terminal to “RS 485-”, and connect shield at one end only. If shield is connected to ProtoNode then wire to “RS 485 GND” connector.

**Dipswitch A0 to A7:** Set to MAC address of ProtoNode. Use the on-board GUI to enable a MAC address above 127. (See ProtoNode user manual, GF-150).

**Dipswitch B0 to B3:** Set to the BACnet baud rate. (See Section 7 of this guide).

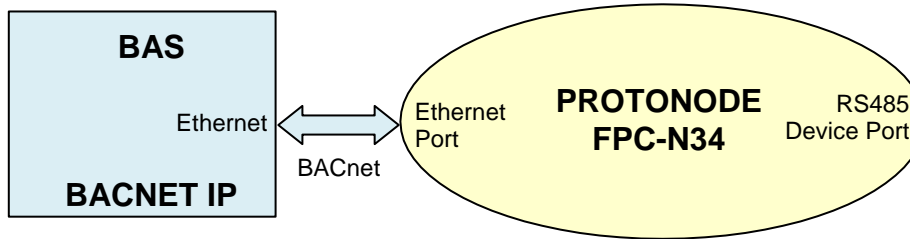
**Dipswitch S0 to S3:** Except for WHM and BST systems, set to S0 = On, S1 = Off, S2 = Off, and S3 = Off. Refer to ProtoNode user manual, GF-150, for the points list and point definitions. For WHM or BST set to S0 = On, S1 = Off, S2 = On, and S3 = Off. The S0-S3 dipswitch settings are also found in Section 7 of this guide.

**Termination (EOL) dipswitch:** Switch on if termination is needed. (When using some other RS232-RS485 converters this may need to be switched on to work properly).

**Device Instance:** For WHM and BST systems, the Device Instance for the system will be the MAC Address added to the Node Offset on the GUI Configuration page. Otherwise, each unit will have its own Device Instance. It will be the unit’s address added to the Node Offset. Refer to ProtoNode user manual, GF-150, for more details.

**BE SURE TO CYCLE AERCO PROTONODE POWER AFTER MAKING ANY DIPSWITCH OR JUMPER CHANGES, OR AFTER ANY NEW FIRMWARE DOWNLOAD.**

**5.2 - BACnet IP to AERCO ProtoNode FPC-N34**



**Field Port:** Plug the Ethernet cable from the Building Automation System (BAS) into the Ethernet port of the ProtoNode.

**Dipswitch A0 to A7:** Set to MAC address of ProtoNode. (Use the on-board GUI to set a MAC address above 127. See ProtoNode user manual, GF-150)

**Dipswitch B0 to B3:** Not Applicable.

**Dipswitch S0 to S3:** Except for WHM and BST systems, set to S0 = Off, S1 = Off, S2 = Off, and S3 = Off. Refer to ProtoNode user manual, GF-150, for the points list and point definitions. For WHM or BST set to S0 = On, S1 = Off, S2 = On, and S3 = Off. The S0-S3 dipswitch settings are also found in Section 7 of this guide.

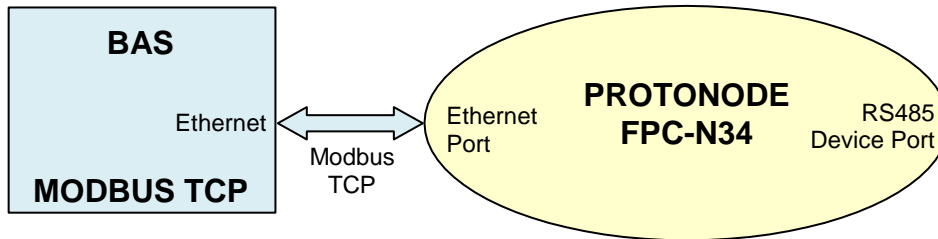
**Termination (EOL) dipswitch:** Not Applicable.

**Device Instance:** For WHM and BST systems, the Device Instance for the system will be the MAC Address added to the Node Offset on the GUI Configuration page. Otherwise, each unit will have its own Device Instance. It will be the unit’s address added to the Node Offset. Refer to ProtoNode user manual, GF-150, for more details.

**IP Address:** Connect to the ProtoNode using the on-board GUI interface and set the IP Address desired. See the ProtoNode user manual, GF-150, for instructions.

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## 5.3 - Modbus TCP to AERCO ProtoNode FPC-N34



**Field Port:** Plug the Ethernet cable from the Building Automation System (BAS) into the Ethernet port of the ProtoNode.

**Dipswitch A0 to A7:** Set the ProtoNode Modbus Address.

**Dipswitch B0 to B3:** Not Applicable.

**Dipswitch S0 to S3:** Except for WHM and BST systems, set to S0 = On, S1 = On, S2 = Off, and S3 = Off. Refer to manual GF-150 for the points list and point definitions. For WHM or BST set to S0 = Off, S1 = Off, S2 = On, and S3 = Off. The S0-S3 dipswitch settings are also found in Section 7 of this guide.

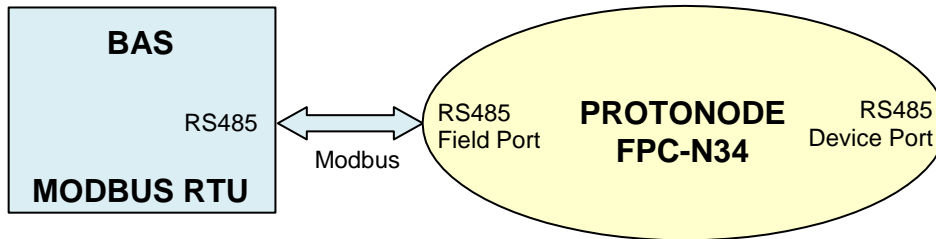
**Termination (EOL) dipswitch:** Not Applicable.

**Unit Address (Node ID):** For WHM and BST systems the ProtoNode Modbus Address is the system address. Otherwise, the address of each unit will be its unit address. Refer to ProtoNode user manual, GF-150, for more information.

**IP Address:** Connect to the ProtoNode using the on-board GUI interface and set the IP Address desired. See the ProtoNode user manual, GF-150, for instructions.

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## 5.4 - Modbus RTU to AERCO ProtoNode FPC-N34



**Field Port:** Wire “+” terminal to “RS 485+”, “-” terminal to “RS 485-”, and connect shield at one end only. If shield is connected to ProtoNode then wire to “RS 485 GND” connector.

**Dipswitch A0 to A7:** Set the ProtoNode Modbus Address.

**Dipswitch B0 to B3:** Set to the BAS Modbus baud rate. (See Section 7 of this manual)

**Dipswitch S0 to S3:** Except for WHM and BST systems, set to S0 = On, S1 = On, S2 = Off, and S3 = Off. Refer to ProtoNode user manual, GF-150, for the points list and point definitions. For WHM or BST set to S0 = Off, S1 = Off, S2 = On, and S3 = Off. The S0-S3 dipswitch settings are also found in Section 7 of this manual.

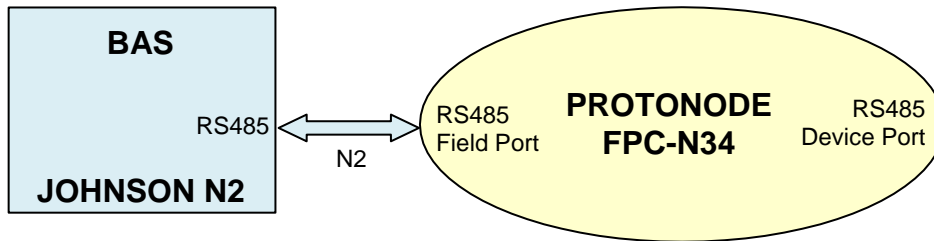
**Termination (EOL) dipswitch:** Switch on if termination is needed. (When using some other RS232-RS485 converters this may need to be switched on to work properly).

**Unit Address (Node ID):** For WHM and BST systems the ProtoNode Modbus Address is the system address. Otherwise, the address of each unit will be its unit address. Refer to ProtoNode user manual, GF-150, for more information.

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**5.5 - Johnson N2 to AERCO ProtoNode FPC-N34**



**Field Port:** Wire “+” terminal to “RS 485+”, “-” terminal to “RS 485-”, and connect shield at one end only. If shield is connected to ProtoNode then wire to “RS 485 GND” connector.

**Dipswitch A0 to A7:** Set the N2 ID or address of the ProtoNode.

**Dipswitch B0 to B3:** The N2 baud rate will automatically be 9600 so this dipswitch is ignored.

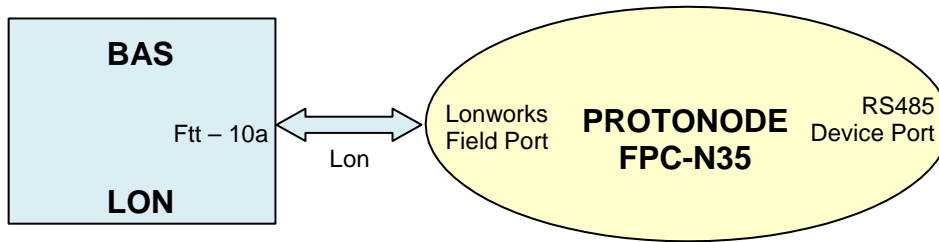
**Dipswitch S0 to S3:** Except for WHM and BST systems, set to S0 = Off, S1 = On, S2 = Off, and S3 = Off. Refer to ProtoNode user manual, GF-150, for the points list and point definitions. For WHM or BST set to S0 = Off, S1 = On, S2 = On, and S3 = Off. The S0-S3 dipswitch settings are also found in Section 7 of this manual.

**Termination (EOL) dipswitch:** Switch on if termination is needed. (When using some other RS232-RS485 converters this may need to be switched on to work properly).

**Unit Address (Node ID):** For WHM and BST systems the ProtoNode Address is the system address. Otherwise, the address of each unit will be its unit address. Refer to ProtoNode user manual, GF-150, for more information.

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## 5.6 - LON to AERCO ProtoNode FPC-N35



**Field Port:** Wire from BAS lonworks port to ProtoNode “Lonworks” field port. Polarity does not matter in this case. Connect shield at one end only.

**Dipswitch A0 to A7:** The dipswitch settings are irrelevant for Lonworks.

**Dipswitch B0 to B3:** Set to the Lonworks baud rate. (See Section 7 of this manual)

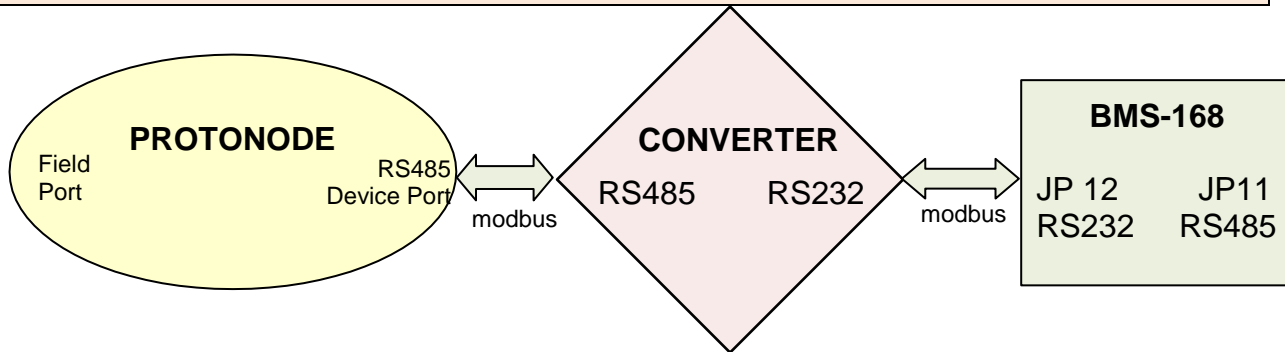
**Dipswitch S0 to S3:** Except for WHM and BST systems, set to S0 = Off, S1 = Off, S2 = Off, and S3 = Off. Refer to ProtoNode user manual, GF-150, for the points list and point definitions. For WHM or BST set to S0 = On, S1 = Off, S2 = Off, and S3 = Off. The S0-S3 dipswitch settings are also found in Section 7 of this manual.

**Note:** The LER must be commissioned by the LonWorks administrator. To activate the Service Pin insert a small screwdriver in the hole and push the top of the screwdriver towards the top of the ProtoNode away from “AERCO” name on the cover.

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## SECTION 6: CONNECTING PROTONODE TO EQUIPMENT

### 6.1 - AERCO ProtoNode to Boiler Management System (BMS-168)



#### ProtoNode Device Port to Converter RS485 Port:

- Wire ProtoNode “TX/+” to Converter “TD(B)” or “485+”. Wire ProtoNode “RX/-” to Converter “TD(A)” or “485-”.
- Place the ProtoNode **BLUE** termination jumper in the **ON** position for the AERCO converter.
- Leave the ProtoNode **RED** bias jumpers in the **OFF** position for the AERCO converter. (AERCO converter has internal bias.) You may try the bias jumpers in the **ON** position if using a non-AERCO converter and you get no communication after setup is completed;

#### Converter RS232 Port to BMS-168 Port JP12:

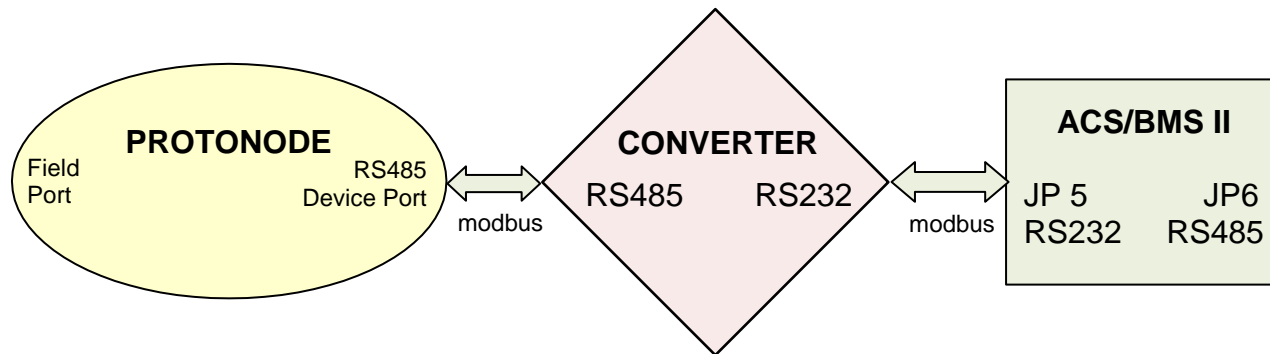
- Wire Converter “TX” (pin 2) to BMS-168 “RXD”. Wire Converter “RX” (pin 3) to BMS-168 “TXD”. Wire Converter “Signal Ground” (pin 5) to BMS-168 “GND”.
- Connect Shield at one end only. If to the BMS-168 at the “SHIELD” input.
- Wire Converter “+12V” to BMS-168 “Setback +”.
- Wire Converter “GND” to BMS-168 “Setback -”.

#### BMS “RS232 MENU” Software Setup:

- RS232 Mode = Modbus Slave; RS232 Baud rate = 9600; Modbus Address = 128 (up to 228); Modbus Pass Thru = Enabled (if reading information from boilers, else leave Disabled);

**BE SURE TO CYCLE AERCO PROTONODE POWER AFTER MAKING ANY DIP SWITCH OR JUMPER CHANGES, OR AFTER A FIRMWARE DOWNLOAD.**

## 6.2 - AERCO ProtoNode to ACS or BMS II



### ProtoNode Device Port to Converter RS485 Port:

- Wire ProtoNode “TX/+” to Converter “TD(B)” or “485+”. Wire ProtoNode “RX/-” to Converter “TD(A)” or “485-”.
- Place the ProtoNode **BLUE** termination jumper in the **ON** position for the AERCO converter.
- Leave the ProtoNode **RED** bias jumpers in the **OFF** position for the AERCO converter. (AERCO converter has internal bias.) You may try the bias jumpers in the **ON** position if using a non-AERCO converter and you get no communication after setup is completed;

### Converter RS232 Port to ACS/BMSII Port JP5:

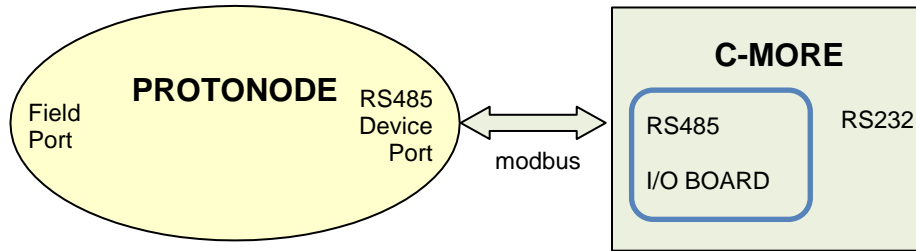
- Wire Converter “TX” (pin 2) to ACS/BMSII “RXD”. Wire Converter “RX” (pin 3) to ACS/BMSII “TXD”. Wire Converter “Signal Ground” (pin 5) to ACS/BMSII “232 ISOGND”.
- Connect Shield at one end only. If to the ACS/BMSII at the “SHLD” input (terminal 3).
- Wire Converter “+12V” to ACS/BMSII “ISO 12V”.

### ACS/BMSII “RS232 MENU” Software Setup:

- RS232 Mode = Modbus Slave; RS232 Baud rate = 9600; Modbus Address = 128 (up to 228); Modbus Pass Thru = Enabled (if reading information from boilers, else leave Disabled);

**BE SURE TO CYCLE AERCO PROTONODE POWER AFTER MAKING ANY DIP SWITCH OR JUMPER CHANGES, OR AFTER A FIRMWARE DOWNLOAD**

**6.3 - AERCO ProtoNode to C-More without BST or WHM**



**ProtoNode Device Port to C-more (I/O Box) RS485:**

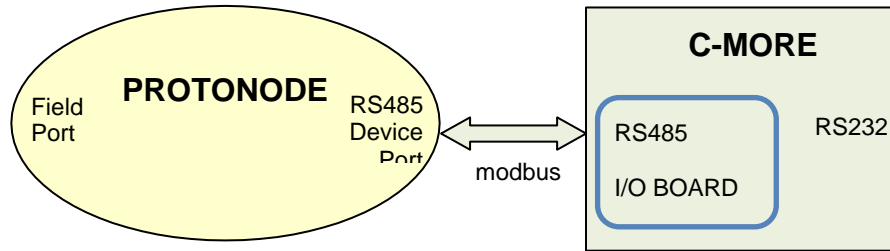
- Wire ProtoNode “TX/+” to “RS485+”, and wire “RX/-” to “RS485-”, and Shield connected at one end only - to the C-More (I/O Box) at the “SHLD” input. Daisy chain to the other units.
- Place the ProtoNode **BLUE** termination jumper in the **ON** position.
- Place the ProtoNode **RED** bias jumpers in the **ON** position. (Leave the C-More BIAS1 and BIAS2 DIP switches in the **OFF** position. Turn **ON** the termination “modbus” DIP switch in the I/O Box of the last unit on the daisy-chain.)

**C-more Setup:**

- For Monitor Only → “Comm Address” = Boiler address, starting with “1” (up to 16);
- For Monitor and Remote Setpt Control via Modbus → Set “Comm Address” as above; Set “Boiler Mode” to “Remote Setpt”; Set “Remote Signal” to “Network”.
- For Monitor and Direct Drive Control via Modbus → Set “Comm Address” as above; Set “Boiler Mode” to “Direct Drive”; Set “Remote Signal” to “Network”.

**BE SURE TO CYCLE AERCO PROTONODE POWER AFTER MAKING ANY DIP SWITCH OR JUMPER CHANGES, OR AFTER A FIRMWARE DOWNLOAD**

**6.4 - AERCO ProtoNode to C-More with BST or WHM**



**BEFORE CONNECTING THE PROTONODE, BE SURE BST OR WHM IS WORKING PROPERLY!!**

**ProtoNode Device Port to C-More (I/O Box) RS485:**

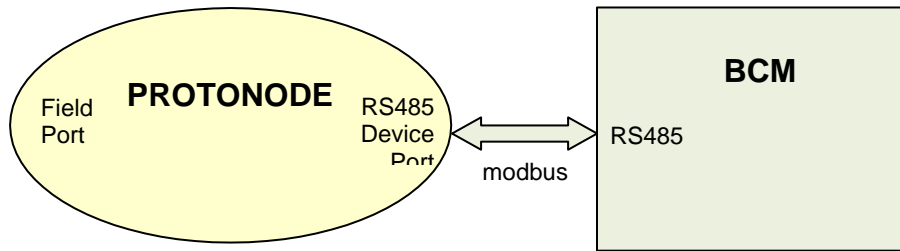
- Wire ProtoNode “TX/+” to “RS485+”, and wire “RX/-” to “RS485-”, and Shield connected at one end only - to the C-More (I/O Box) at the “SHLD” input. Daisy chain to the other units.
- Place the ProtoNode **BLUE** termination jumper in the **ON** position.
- Place the ProtoNode **RED** bias jumpers in the **ON** position. (Leave the C-More BIAS1 and BIAS2 DIP switches in the **OFF** position. Turn **ON** the termination “modbus” DIP switch in the I/O Box of the last unit on the daisy-chain.)

**C-More Setup:**

- C-more Unit Address = 1 to 8.
- **Be sure BST or WHM is working properly and ProtoNode dipswitch is set as above before proceeding.**
- Set “SSD Address” in the master C-more unit to “247” in order to beginning talking to the ProtoNode.
- Set “SSD Temp Format” to “Points” in all the Boilers or Heaters.

**BE SURE TO CYCLE AERCO PROTONODE POWER AFTER MAKING ANY DIP SWITCH OR JUMPER CHANGES, OR AFTER A FIRMWARE DOWNLOAD**

## 6.5 - AERCO ProtoNode to BCM (on MLX or MLX EXT Boiler)



### ProtoNode Device Port to BCM Port Y2:

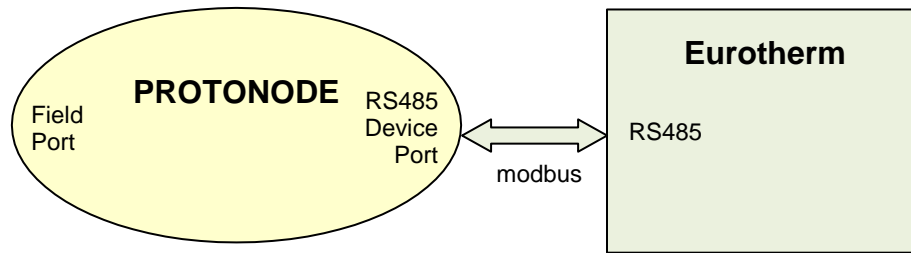
- Wire ProtoNode “TX/+” to Y2 pin 1; Wire “RX/-” to Y2 pin 2; and connect Shield at one end only – if to the ProtoNode at the “GND” input. Daisy chain to the other units.
- No termination or bias should be needed unless it is a long run. If they are needed, place the ProtoNode blue termination jumper in the ON position. Place the ProtoNode red bias jumpers in the ON position.

### BCM Setup:

- Set the Address DIP switch on each BCM starting from 1 (up to 8). Keep termination jumper off on the last unit in the chain unless bias and termination was activated at the ProtoNode Device Port.

**BE SURE TO CYCLE AERCO PROTONODE POWER AFTER MAKING ANY DIP SWITCH OR JUMPER CHANGES, OR AFTER A FIRMWARE DOWNLOAD**

**6.6 - AERCO ProtoNode To Eurotherm (on ECS or SmartPlate)**



**ProtoNode Device Port to Eurotherm Port H:**

- Wire ProtoNode “TX/+” to “HF”; Wire ProtoNode “RX/-” to “HE”; and connect Shield at one end only – if to the ProtoNode at the “GND” input. Daisy chain to the other units.
- No termination or bias should be needed unless it is a long run. If they are needed:
  - Place the ProtoNode **BLUE** termination jumper in the **ON** position.
  - Place the ProtoNode **RED** bias jumpers in the **ON** position.

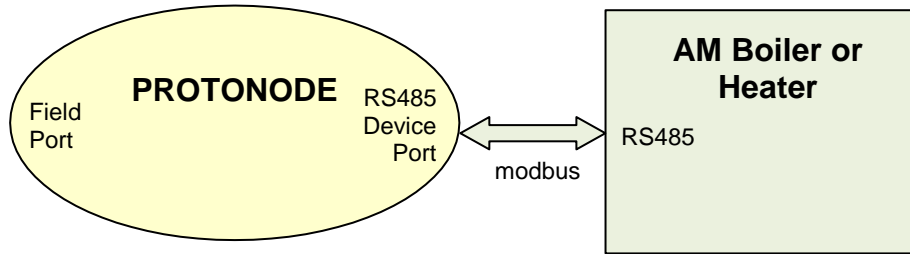
**Eurotherm Setup:**

- Set “Addr” on the Eurotherm starting from “17” up to “32” maximum. Do not install the termination resistor on the last unit in the chain unless bias and termination was activated at the ProtoNode Device Port.

**BE SURE TO CYCLE AERCO PROTONODE POWER AFTER MAKING ANY DIP SWITCH OR JUMPER CHANGES, OR AFTER A FIRMWARE DOWNLOAD**



**6.7 - AERCO ProtoNode to AM Series Boiler or Heater**



**ProtoNode Device Port to AM Series RS485 Port:**

- Wire ProtoNode “TX/+” to terminal “18”; Wire ProtoNode “RX/-” to terminal “19”; and connect Shield at one end only – if to the ProtoNode at the “GND” input. Daisy chain to the other units.
- No termination or bias should be needed unless it is a long run. If they are needed, place the ProtoNode blue termination jumper in the ON position. Place the ProtoNode red bias jumpers in the ON position.
- Note: The Modbus wiring daisy-chain to the AM Series (terminal 18 and 19) is separate from the wiring daisy-chain of the Cascade Manager/Sequencer (terminal 28 and 29). See GF-146, GF-146-MB, or GF-146-CS for more details.

**AM Series Setup:**

- Use parameter 3085 to set the modbus address of each unit starting from 1 (up to 16); Use parameter 3086 to set the number of stop bits to 1 if not set already. See manual GF-146-MB or GF-146 for further information.

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## SECTION 7: UNIT SELECTION

### 7.1 - Auto-Discovery Unit Selection

The S3 dipswitch is used to enable auto-discovery. Be sure all connections are made and your boiler or heater system is working properly before starting the auto-discovery process.

- Turn on dipswitch S3 and then apply power to the ProtoNode to start the auto-discovery process. If power was previously applied, it must be cycled in order to start the process.
- Allow 10 full minutes for the auto-discovery process to complete.
- As each unit is discovered, your Building Automation System will see them appear.
- Once the ProtoNode has discovered all of the units, turn Off the S3 dipswitch to save the current configuration.

### 7.2 - Manual Unit Selection

To manually select each unit a PC or laptop is required. The S3 dipswitch can be left off.

- Be sure the ProtoNode is already configured.
- Open a web browser on your PC and enter the IP address of the ProtoNode – the default is 192.168.1.24.
- Go to the bottom of the page and select “Add”.
- Enter the unit’s address or Node ID.
- Select the “Current Profile” of the unit.
- Once your information is correct select “Submit”, or select “Cancel” to start again.
- Repeat the above steps to select other units. As each unit is selected communication should begin to them.
- After selecting all your units, click the “System Restart” tab on the bottom to update the ProtoNode.

#### NOTE:

Be sure dipswitch S3 is turned off else auto-discovery will occur every time a power cycle or a reset occurs.

**BE SURE TO CYCLE AERCO PROTONODE POWER AFTER MAKING ANY DIPSWITCH OR JUMPER CHANGES, OR AFTER A FIRMWARE DOWNLOAD**

ProtoNode B0 to B3 DIP Switch Settings				
B0	B1	B2	B3	Baud Rate
On	On	On	Off	9600
Off	Off	Off	On	19200
<b>On</b>	<b>On</b>	<b>Off</b>	<b>On</b>	<b>38400</b>
Off	Off	On	On	57600
On	Off	On	On	76800

ProtoNode FPC-N34 S0 to S3 DIP Switch Settings				
S0	S1	S2	S3	Profile
Off	Off	Off	Off	BACnet/IP
<b>ON</b>	Off	Off	Off	BACnet MS/TP
Off	<b>ON</b>	Off	Off	Metasys N2
<b>ON</b>	<b>ON</b>	Off	Off	Modbus TCP/IP or Modbus RTU
Off	Off	<b>ON</b>	Off	*Modbus TCP/IP or Modbus RTU to 8 WHM/BST Units
<b>ON</b>	Off	<b>ON</b>	Off	*BACnet/IP or BACnet MS/TP to 8 WHM/BST Units
Off	<b>ON</b>	<b>ON</b>	Off	*Metasys N2 to 8 WHM/BST Units

ProtoNode FPC-N35 S0 to S3 DIP Switch Settings				
S0	S1	S2	S3	Profile
Off	Off	Off	Off	Lonworks
<b>ON</b>	Off	Off	Off	*Lon to 8 WHM/BST Units

**\* NOTE:**

For WHM and BST systems auto-discovery cannot be done. Be sure that the “S” bank switches are set properly.

AERCO Device Address Range for Operation with ProtoNode FPC-N34 and FPC-N35	
AERCO Device	Address Range
AM Manager	1 to 16
AM Dependent	1 to 16
C-More BMK/INN	1 to 16
Modulex & Modulex EXT	1 to 8
ECS IND/SP/DW	17 to 32
BMS168/BMSII/ACS	128 to 228
BST and WHM	1 to 8; (SSD Address = 247)

**CHANGE LOG:**

DATE	DESCRIPTION	CHANGED BY
01/26/2017	Rev-A: Initial release.	Curtis Harvey



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