**Features and Benefits:**

- **Programming UI:** Built in web browser for easy configuration. Intuitive and easy-to-use screen layout.
- **Quick and Easy Setup:** Device protocol and points pre-loaded for immediate recognition of device and automatic BAS/BMS integration.
- **BAS Protocol user selectable:** All protocols are factory loaded and available at time of setup.

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**Power connections to the BMS Pro (ProtoNode):**

<table>
<thead>
<tr>
<th>Power</th>
<th>BMS Pro Pin #</th>
<th>Pin Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power In (+)</td>
<td>Pin 4</td>
<td>V+ (auxiliary power from ControlKeeper or 3rd party power source)</td>
</tr>
<tr>
<td>Power In (-)</td>
<td>Pin 5</td>
<td>V- (auxiliary GND from ControlKeeper or 3rd party power source)</td>
</tr>
<tr>
<td>Frame Ground</td>
<td>Pin 6</td>
<td>Frame Ground</td>
</tr>
</tbody>
</table>

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**General Specifications:**

- **Supported Serial (RS-485) Protocols:** BACnet MS/TP, Modbus RTU
- **Supported Ethernet Protocols:** BACnet IP, Modbus TCP/IP
- **Supported Electrical Connections:**
  - (1) 6 pin Phoenix Connector
  - (1) RS-485 +/- Ground port (Power +/-, Frame Ground port)
- **Power Requirements:**
  - 9-30 VDC or 12-24VAC current draw @ 12V = 240 mA
- **Operating environment:**
  - Indoor use only
  - -40°C to 72°C (+40°F to 160°F)
  - Relative humidity (non-condensing): 3% to 90%
  - Dimensions: 4.52 x 3.20 x 1.80 inches (LxWxH) / (114.9 x 81.3 x 45.7 mm)
- **Approvals:**
  - BACnet Testing Lab (BTL) BACnet
  - LONMark 3.4 Certified
  - TUV approved to UL 916 standard and CSA C22.2
  - RoHS Compliant
  - CE Mark
- **Warranty:**
  - Five-year limited

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**BMS Pro (ProtoNode) Description and Operation:**

The BMS Pro provides up to 10,000 points of control and can communicate to multiple panel types on the lighting control network. Each BMS Pro can be programmed to communicate to either a Greengate or iLumin network and a single Ethernet access point (either the EIM or E22-NA).

For Greengate lighting control networks the BMS Pro will automatically find all network lighting control panels and pre-populate the BACnet, Modbus, or LON points of control for each panel.

For iLumin lighting control networks you upload the iLumin Virtual Area file to load the Areas, Scenes and Channels programmed into the system. These are automatically mapped to BACnet, Modbus or LON points of control.

The BMS Pro uses a 9-30VDC power input and can be powered from auxiliary power generated from most lighting control panels. If auxiliary power is not available a separate power supply should be provided.