Phoenix Controls Programmable Control Module (PCM) 500 series provides a means of connecting additional inputs and outputs to the Theris® and Tracel® BACnet® room-level network and developing custom control sequences to enhance the control functions already provided. The PCM offers varying numbers of configurable input and output connections, a graphical programming interface for developing custom control applications. The PCM adds tremendous power and flexibility to the Phoenix Controls environmental control system. The graphical programming interface makes developing custom control sequences simple and efficient.

FEATURES
- Interfaces with Theris/Tracel BACnet MS/TP room-level networks
- 6, 10, and 12 universal inputs
- 3, 8, and 12 universal/digital outputs
- Graphical block-oriented programming
- DIN rail mounting
- Separable housing allows removal of controller from wiring base
- Power, Status, and Communication LEDs

SPECIFICATIONS

Enclosure
ABS type PA-765A tan enclosures with gray connectors

Dimensions
- PCM501—5.7” x 4.7” x 2.0” (144.8 x 119.4 x 50.8 mm)
- PCM502—5.7” x 4.7” x 2.0” (144.8 x 119.4 x 50.8 mm)
- PCM503—7.7” x 4.7” x 2.0” (195.6 x 119.4 x 50.8 mm)

Approximate Weight
- PCM501—0.97lbs (0.44kg)
- PCM502—0.97lbs (0.44kg)
- PCM503—1.17lbs (0.53kg)

Environmental
- Operating temperature 32 °F to 122 °F (0 °C to 50 °C)
- Storage temperature -4 °F to 122 °F (-20 °C to 50 °C)
- Relative humidity 0 to 90% non-condensing

Power Inputs
- 24 Vac ±15%, 50/60 Hz - must be powered by Class 2 power source
- 24 Vdc ±15%
- Power supply polarity must be maintained

Power Consumption

<table>
<thead>
<tr>
<th>PCM501</th>
<th>14 VA (typical) / 23 VA (maximum)</th>
<th>2.0 A replaceable fuse</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCM502</td>
<td>16 VA (typical) / 33 VA (maximum)</td>
<td>3.0 A replaceable fuse</td>
</tr>
<tr>
<td>PCM503</td>
<td>22 VA (typical) / 60 VA (maximum)</td>
<td>3.0 A replaceable fuse</td>
</tr>
</tbody>
</table>

Interoperability
- Communications: BACnet MS/TP
- Baud rates: 9600, 19200, 38400, 76800 bps (autodetect or selectable)
- Addressing: DIP switch (0-127)
- 1/8 unit load. Max devices recommended: 50; Max devices allowed: 127

General Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>PCM501</th>
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<th>PCM503</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processor Speed (32-bit ARM)</td>
<td>68 MHz</td>
<td>72 MHz</td>
<td>72 MHz</td>
</tr>
<tr>
<td>Application Memory (non-volatile flash)</td>
<td>384 KB</td>
<td>1 MB</td>
<td>1 MB</td>
</tr>
<tr>
<td>Storage Memory (non-volatile flash)</td>
<td>1 MB</td>
<td>2 MB</td>
<td>2 MB</td>
</tr>
<tr>
<td>RAM</td>
<td>64 KB</td>
<td>96 KB</td>
<td>96 KB</td>
</tr>
</tbody>
</table>
ORDERING GUIDE

PRODUCT FAMILY
PCM = Programmable Control Module (BACnet)

SERIES
501 = DIN rail or surface mount programmable controller:
6 universal inputs/3 universal outputs/5 digital triac outputs; supports up to 3 optional external
DIN rail mounted 8A SPDT relays
502 = DIN rail or surface mount programmable controller:
10 universal inputs/8 universal outputs; supports up to 8 optional external DIN rail mounted
8A SPDT relays
503 = DIN rail or surface mount programmable controller:
12 universal inputs/12 universal outputs; supports up to 12 optional externally mounted
8A SPDT relays

OPTION
Rnn = Optional externally DIN rail mounted 8A SPDT relay
nn = quantity of relays (universal outputs only); number of relays may not exceed
number of universal outputs, single digits entries must be preceded by a zero (0n)

REPLACEMENT RELAY AND BASE
Order PRT-250-321-017