PC-Series
Power Supply

Features
• Single or dual power supply
• Rugged plastic housing
• Wall, panel, DIN rail or outlet mounting styles
• 24 Vdc and 12 Vdc, depending on model

Applications
• Power supplies for:
  • Flowmeters
  • Indicators and controllers
  • 4-20 mA loop devices
  • Magmeter/indicator combinations

<table>
<thead>
<tr>
<th>Model</th>
<th>Power</th>
<th>Regulation</th>
<th>Mounting</th>
</tr>
</thead>
<tbody>
<tr>
<td>PC42</td>
<td>Dual 24 Vdc and 12 Vdc</td>
<td>Regulated</td>
<td>Wall or Panel</td>
</tr>
<tr>
<td>PC3</td>
<td>24 Vdc</td>
<td>Unregulated</td>
<td>Outlet</td>
</tr>
<tr>
<td>PC12</td>
<td>12 Vdc</td>
<td>Regulated</td>
<td>Wall or DIN rail</td>
</tr>
</tbody>
</table>
The PC42 dual regulated power supply is designed for applications in which a magmeter is used together with a 4-20 mA transmitter such as the AO55 or FT440. Although a single 24 Vdc power supply can be used, there is a risk of a ground loop interfering with proper operation of the 4-20 mA current loop. This risk is eliminated by the dual power supply.

The housing is rugged molded ABS plastic, NEMA 4X rated. It can be wall or panel mounted. The PC42 can be hardwired to the AC main supply or plugged into a standard outlet using the included power cord. Inside there are separate terminals to connect the two devices to the fully isolated supplies.

### Installation and Connections

Remove the cover to expose the four mounting holes at the bottom of the cover screw tubes. Mark the mounting surface, drill, and attach with screws. Do not drill additional holes in the box. Doing so will allow moisture into the enclosure.

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**Caution 1:** Important! Do not connect power to the PC42 until all connections have been made and confirmed correct, and the cover has been put back into place.

**Caution 2:** It is essential for safety and proper operation to use a ground connection for the 115 Vac power. Do not use this power supply without proper grounding.

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### Specifications*

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Input Power</strong></td>
<td>115 Vac/230 Vac ±10%, internally switchable, 50/60 Hz</td>
</tr>
<tr>
<td><strong>Output Voltage/Current</strong></td>
<td>Regulated</td>
</tr>
<tr>
<td>12 Vdc ±1% @ 350 mA</td>
<td></td>
</tr>
<tr>
<td>24 Vdc ±4% @ 100 mA</td>
<td></td>
</tr>
<tr>
<td><strong>Terminal Block Wire</strong></td>
<td>22–12 AWG</td>
</tr>
<tr>
<td><strong>Operating Temperature</strong></td>
<td>-4˚ to 140˚ F (-20˚ to 60˚ C)</td>
</tr>
<tr>
<td><strong>Environmental</strong></td>
<td>NEMA 4X</td>
</tr>
</tbody>
</table>

* Specifications subject to change. Please consult our website for current data (seametrics.com)

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### Dimensions

- **Height:** 4.93” (12.52 cm)
- **Width:** 3.175 cm (1.25”)
- **Depth:** 2.92” (7.42 cm)
- **Environmental:** NEMA 4X
- **Waterproof strain reliefs for power outputs (12 Vdc & 24 Vdc). Remove cover to access terminal blocks.
- **3 Conductor power cord, supplied (may be replaced with suitable wiring).**

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[PC42 Dual Power Supply Diagram]

115 Vac, 50/60Hz
Earth Ground
Pre-wired power cord Replace if damaged 115 Vac, 50/60 Hz

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PC3

The PC3 is designed as a convenient 24 Vdc power supply for use with a 120 Vac outlet, primarily for mechanical meter applications. Terminals allow user connection of wiring on the low-voltage side. Since this is an unregulated power supply, actual voltage may be as high as 36 Vdc, depending on line voltage and load. The PC3 should be used only in applications where these voltages are tolerated.

 Specifications*

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input Power</td>
<td>120 Vac ±10%, 60 Hz, 19 W</td>
</tr>
<tr>
<td>Output Voltage/Current</td>
<td>24 Vdc @ 500 mA</td>
</tr>
<tr>
<td>Regulation</td>
<td>Unregulated, may vary up to 36 Vdc</td>
</tr>
<tr>
<td>Output Terminal Wire</td>
<td>22–18 AWG</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>32˚ to 140˚ F (0˚ to 60˚ C)</td>
</tr>
<tr>
<td>Safety Agency Approvals</td>
<td>UL, UL/C (Canada) listed</td>
</tr>
</tbody>
</table>

* Specifications subject to change. Please consult our website for current data (seametrics.com)

Dimensions

- 3.26” (8.3 cm)
- 2.2” (5.6 cm)
- 1.93” (4.9 cm)

Typical Application

FT440 Indicator

PC3 Power Supply
PC12

UL/CSA/CE marked, the PC12 is a low noise, switching power supply for magmeter applications where 4-20 mA loop power is not required. The PC12 is designed for wall or DIN rail mounting.

Specifications*

<table>
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<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input Power</td>
<td>85–264 Vac, 45–65 Hz</td>
</tr>
<tr>
<td>Output Voltage/Current</td>
<td>12 Vdc ±1%, /1A (Regulated)</td>
</tr>
<tr>
<td>Output Noise</td>
<td>&lt; 10 mV p-p</td>
</tr>
<tr>
<td>Screw Terminal Wire</td>
<td>12–24 AWG</td>
</tr>
<tr>
<td>MTBF</td>
<td>500,000 hours</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-13˚ to 158˚ F (-25˚ to 70˚ C)</td>
</tr>
<tr>
<td>Regulatory Approvals</td>
<td>UL, UL/C (Canada) listed, CE</td>
</tr>
<tr>
<td>Environmental</td>
<td>IP20, non-condensing</td>
</tr>
</tbody>
</table>

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Dimensions

2 x 0.16" (0.406 cm) diameter

Extendable Mounting Tabs

2.4" (6.1 cm)

Contact Your Supplier

UL/CSA/CE marked, the PC12 is a low noise, switching power supply for magmeter applications where 4-20 mA loop power is not required. The PC12 is designed for wall or DIN rail mounting.

How to Order

MODEL

- Dual 12/24 Vdc, regulated, wall or panel mount = **PC42**
- Single 24 Vdc, unregulated, outlet = **PC3**
- Single 12 Vdc, regulated, wall or DIN rail = **PC12**