Dwyer Instruments Inc. offers a selection of power supplies for use in a variety of applications. The appropriate power supply is chosen based on the power requirements of the specific component(s) in the application as well as the desired mounting style.

**FEATURES**
- Single or dual power supply
- Rugged plastic housing
- Wall or outlet mounting styles
- 24 VDC and 12 VDC, depending on model

**APPLICATIONS**
Power supplies for:
- Flowmeters
- Indicators and controllers
- 4 to 20 mA loop devices
- Electromagnetic Flow Sensor/indicator combinations

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The PWC1 is a single 24 Vdc unregulated power supply that plugs into a 120 Vac outlet. Since it is unregulated, voltages can vary up to approximately 32 Vdc depending on the load. The PWC1 should be used only in applications where these voltages are tolerated.

The PWC2 is a regulated dual power supply (12 Vdc and 24 Vdc) for use in applications where a magmeter is used along with a 4-20 mA transmitter. Though a single power supply can work in such applications, the PWC2 eliminates the risk of potential ground loop interference. The PWC2 is designed for wall or panel mounting.

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**GENERAL INFORMATION**

<table>
<thead>
<tr>
<th>Model</th>
<th>Power</th>
<th>Regulation</th>
<th>Mounting</th>
</tr>
</thead>
<tbody>
<tr>
<td>PWC1</td>
<td>24 Vdc</td>
<td>unregulated</td>
<td>Outlet</td>
</tr>
<tr>
<td>PWC2</td>
<td>Dual 24 Vdc and 12 Vdc</td>
<td>regulated</td>
<td>Wall or Panel</td>
</tr>
</tbody>
</table>
PWC2

The PWC2 dual power supply is designed for applications in which a magmeter is used together with a 4-20 mA transmitter. 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 PWC2 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.

**SPECIFICATIONS***

<table>
<thead>
<tr>
<th>Input Power</th>
<th>115 Vac/230 Vac internally switchable</th>
</tr>
</thead>
</table>
| Output Voltage/Current | 12 Vdc output +/- 1% @ 350 mA  
24 Vdc output +/- 4% @ 100 mA |
| Terminal Block Wire Size Range | 22 - 12 AWG |
| Dimensions | 4.93” L x 4.93” W x 2.92” H  
(125 x 125 x 74mm) |
| Operating Temperature | -20˚ to +60˚ C |
| Environmental | NEMA 4X |

*Specifications subject to change

**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 PWC2 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.

**DIMENSIONS**

Remove the 4 screws to access mounting holes. Holes are on 4.330 centers.

Waterproof strain reliefs for power outputs (12Vdc & 24Vdc). Remove cover to access terminal blocks.

3 Conductor power cord, supplied (may be replaced with suitable wiring).
**PWC1**

The PWC1 is designed as a convenient 24 Vdc power supply for use with a 120 Vac outlet. 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 32 Vdc, depending on load.

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input Power</td>
<td>120 Vac, 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 32 Vdc</td>
</tr>
<tr>
<td>Screw Terminal Size</td>
<td>22 - 18 AWG</td>
</tr>
<tr>
<td>Dimensions</td>
<td>3.23” L x 2.20” W x 1.93” H (82 x 56 x 49 mm)</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>0˚ to +60˚ C</td>
</tr>
<tr>
<td>Safety Agency Approvals</td>
<td>UL, C-UL (Canada) listed</td>
</tr>
</tbody>
</table>

*Specifications subject to change*

**DIMENSIONS**

3.23”

2.20”

1.93”

**TYPICAL APPLICATION**

**HOW TO ORDER**

**MODEL**

- Single 24 Vdc, unregulated, outlet = **PWC1**
- Dual 12/24 Vdc, regulated, wall or panel mount = **PWC2**