PS40
Pulse Splitter Instructions

Precision Flow Measurement
An ONICON Brand

Seametrics

PROUDLY MADE IN THE USA
Certified Company
ISO 9001

PS40

FLOW METER
Red + 10-32 VDC
Black - Ground

INPUT

OUTPUT
Red + Pulse
Black - Pulse

OUTPUT
Red + Pulse
Black - Pulse

Seametrics
The **PS40** is a low-voltage device that allows a Seametrics flow sensor to drive multiple (up to four) pulse-responsive devices, such as solenoid-driven chemical metering pumps, counter timers, or remote totalizers. It requires an external DC power supply for operation and can provide power to a single low-power Seametrics flow sensor, such as an MJE meter. It can also be used with a dry contact sensor, such as the MJR reed switch meter.

### Specifications*

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Power</strong></td>
<td>10–32 Vdc</td>
</tr>
<tr>
<td><strong>Relay</strong></td>
<td>Operational frequency = 50 Hz max</td>
</tr>
<tr>
<td></td>
<td>Contacts = 250 mA max, 36 Vdc max, 3 W max</td>
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<tr>
<td><strong>Optoisolation</strong></td>
<td>10 mA max @ 30 Vdc max</td>
</tr>
<tr>
<td><strong>Outputs</strong></td>
<td>Three open collector optoisolated</td>
</tr>
<tr>
<td></td>
<td>One Form C relay</td>
</tr>
<tr>
<td><strong>Environmental</strong></td>
<td>NEMA 4X, IP66</td>
</tr>
</tbody>
</table>

* Specifications subject to change. Please consult our website for current data. Please consult our website for current data ([seametrics.com](http://seametrics.com)).

### Features

- Rugged ABS Plastic Housing
- Easy Mounting with Pre-drilled Mounting Holes
- Optoisolated Transistor and Relay Outputs

### Dimensions

![Dimensions Diagram](image-url)
Connections
Remove the PS40 cover to access the terminals. Follow the Connections diagram. Use the included nuts to secure the strain reliefs on the inside of the enclosure before connecting to the terminals.

Power
A DC power supply of 10 to 32 Vdc is required. Connect the +V and –V terminals to the DC + and – as shown.

Sensor
If using a two-wire (e.g., MJR meter), note which two of the three terminals are to be used. Either of the sensor wires can be connected to either of these two terminals. Three-wire sensors (e.g., MJE meters) are polarity-sensitive and must be connected to the appropriate terminals by standard Seametrics color code: red is +, black is –, and white is Signal.

Output
Three of the outputs are transistor, the fourth is relay. The transistor outputs will operate almost all pulse-responsive metering pumps and all Seametrics controls, provided that the polarity is correct. The relay output is identified by its terminals marked NO (normally open), COM (common), and NC (normally closed). The relay output will operate essentially everything, including the very rare pump or control that will only work with dry contact.

Caution: The relay output is designed for electronic controls only. Maximum current load is 250 mA.

High Speed Input
It may be occasionally desirable to use the PS40 with a high-speed input, such as an IP80 paddlewheel flow sensor. If the sensor will be putting out more than 50 pulses per second, it is necessary to disable the relay output, which cannot operate at such high speeds. To do this, clip the jumper marked JP1 (see diagram). Note that the relay output terminals cannot be used in this case.
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iv. Alterations to the product, purposeful or accidental

v. Electrical current fluctuations

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vii. Mishandling, or misapplication of Seametrics products

viii. Products or parts that are typically consumed during normal operation

ix. Use of parts or supplies (other than those sold by Seametrics) which cause damage to the products, or cause abnormally frequent service calls or service problems

h. A new warranty period will be established for repaired products, or products replaced during the original warranty period.

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