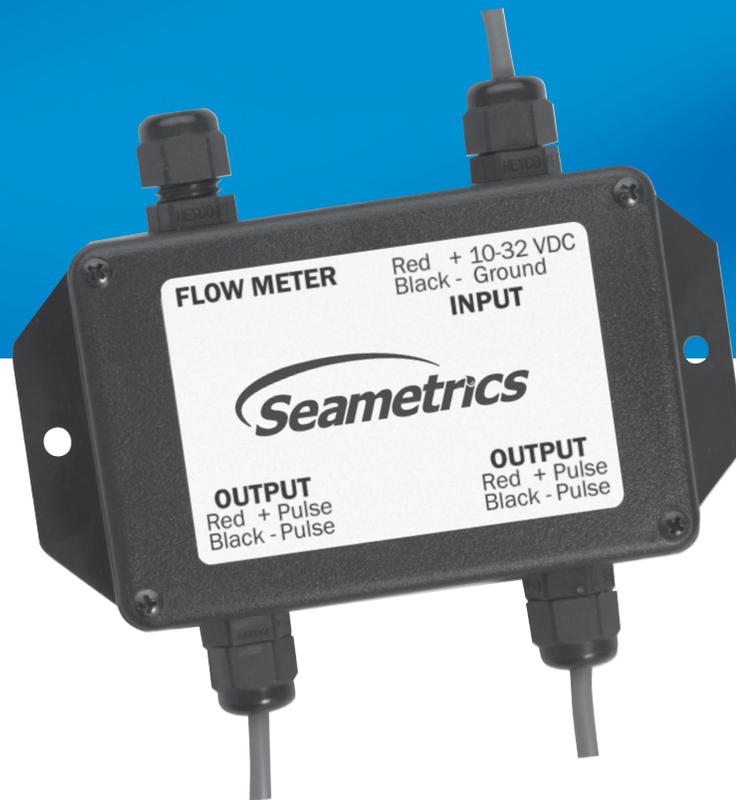


# PS40

## Pulse Splitter Instructions



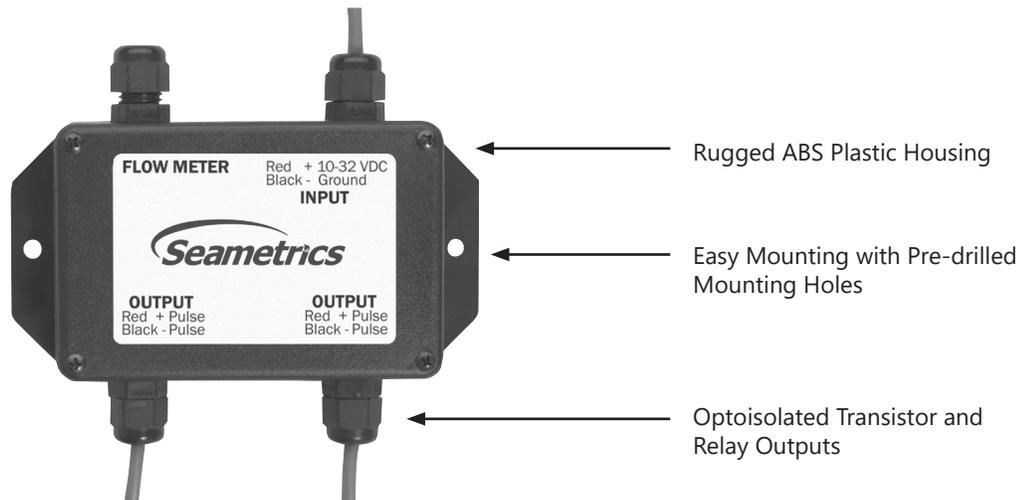
The **PS40** is a low-voltage device that allows a Seametrics flow sensor to drive multiple (up to four) pulse-responsive devices, such as solenoid-driven chemical metering pumps, counter timers, or remote totalizers. It requires an external DC power supply for operation and can provide power to a single 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\***

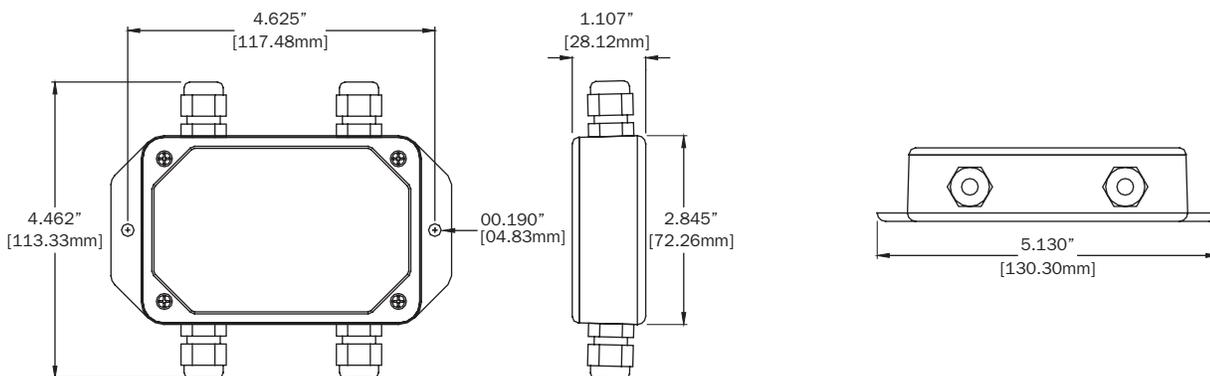
<b>Power</b>	10–32 Vdc
<b>Relay</b>	Operational frequency = 50 Hz max Contacts = 250 mA max, 36 Vdc max, 3 W max.
<b>Optoisolation</b>	10 mA max @ 30 Vdc max
<b>Outputs</b>	Three open collector optoisolated One Form C relay
<b>Environmental</b>	NEMA 4X, IP66

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

**Features**



**Dimensions**



**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

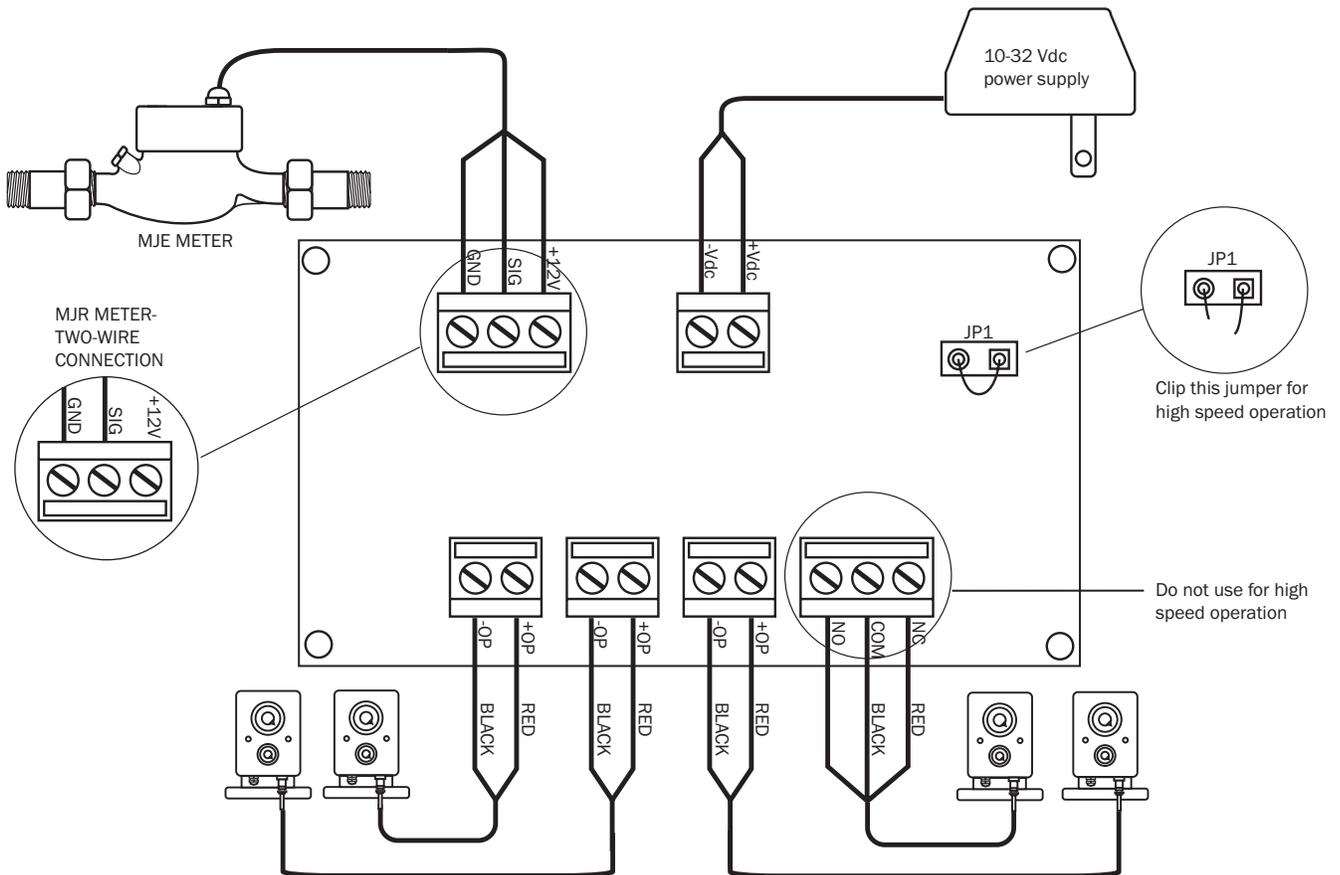
metering pumps and all Seametrics controls, provided that the polarity is correct. The relay output is identified by its terminals marked NO (normally open), COM (common), and NC (normally closed). The relay output will operate essentially everything, including the very rare pump or control that will 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.



**Connections**

The limited warranty set forth below is given by Seametrics, with respect to Seametrics brand products purchased in the United States of America.

Seametrics warrants that products manufactured by Seametrics, when delivered to you in new condition in their original containers and properly installed, shall be free from defects in material and workmanship. **Seametrics products are warranted against defects for a minimum period of two (2) years from date of installation, unless otherwise specified, with proof of install date. If no proof of install date can be provided, warranty period will be two (2) years from date of shipment from Seametrics, as defined on Seametrics' invoice.** Seametrics' obligation under this warranty shall be limited to replacing or repairing the part or parts, or, at Seametrics' option, the products, which prove defective in material or workmanship. The following are the terms of Seametrics' limited warranty:

- a. Buyer must give Seametrics prompt notice of any defect or failure and satisfactory proof thereof.
- b. Any defective part or parts must be returned to Seametrics' factory or to an authorized service center for inspection.
- c. Buyer will prepay all freight charges to return any products to Seametrics' factory, or another repair facility, as designated by Seametrics.
- d. Defective products, or parts thereof, which are returned to Seametrics and proved to be defective upon inspection, will be repaired to factory specifications.
- e. Seametrics will deliver repaired products or replacements for defective products to the buyer (ground freight prepaid) to the destination provided in the original order.
- f. Products returned to Seametrics for which Seametrics provides replacement under this warranty shall become the property of Seametrics.
- g. This limited warranty covers all defects encountered in normal use of Seametrics products, and does not apply to the following cases:
  - i. Loss of or damage to Seametrics product due to abuse, mishandling, or improper packaging by buyer
  - ii. Failure to follow operating, maintenance, or environmental instructions prescribed in Seametrics' instruction manual
  - iii. Products not used for their intended purpose
  - iv. Alterations to the product, purposeful or accidental
  - v. Electrical current fluctuations
  - vi. Corrosion due to aggressive materials not approved for your specific product
  - 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.
- i. In the event that equipment is altered or repaired by the buyer without prior written approval by Seametrics, all warranties are void. Damage caused by equipment or accessories not manufactured by Seametrics may void the product's warranty.
- j. SOFTWARE: The Seller grants the user a non-exclusive license to use Seametrics' software, according to the following limitations and conditions:
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  - ii. All title and intellectual rights to the software are owned by Seametrics.
  - iii. No copies may be made or distributed except as described above.
  - iv. The user may not modify or reverse-engineer the software.

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