



### Description

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

### Specifications

<b>Power:</b>	10-32VDC
<b>Relay:</b>	
Operational Frequency	50Hz
Contacts	100mA @ 30 VDC
<b>Opto Isolation:</b>	75mA @ 30 VDC
<b>Outputs:</b>	Open Collector Transmitter (3) Form C Relay (1)

### Connection

Remove the cover of the PS40 enclosure to access the terminals. Follow the Connections diagram. It is necessary to install the strain reliefs which will be required before connecting to the terminals. Use the included nuts (shipped with the strain reliefs) to secure them on the inside of the enclosure.

### Power

As shown, a DC power supply of 10 to 32 VDC is required. Locate the +V and -V terminals, and connect the DC + and - accordingly.

### Sensor

Either two-wire (example: MDR meter) or three-wire sensors (example: MDE meter) can be used. If using a two-wire, 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 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

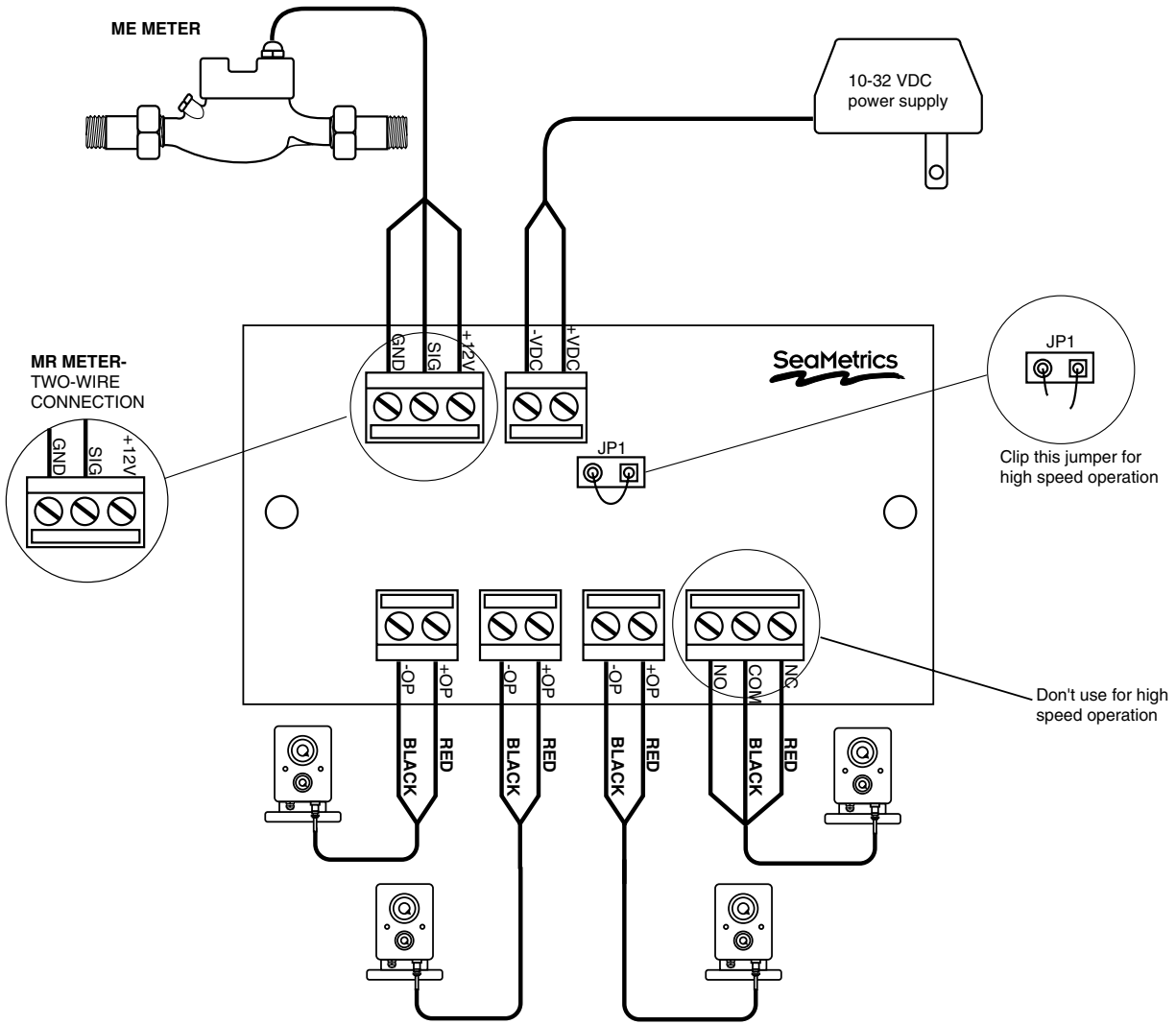
There are two types of output, transistor and relay. Three of the outputs are transistor, the other is relay. The relay output is identified by its terminal marked NO (normally open), C (common), and NC (normally closed). The transistor outputs will operate almost all pulse-responsive metering pumps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

**Caution: The relay output is designed for electronic controls only. Maximum current load is 100 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



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