

OVP-100

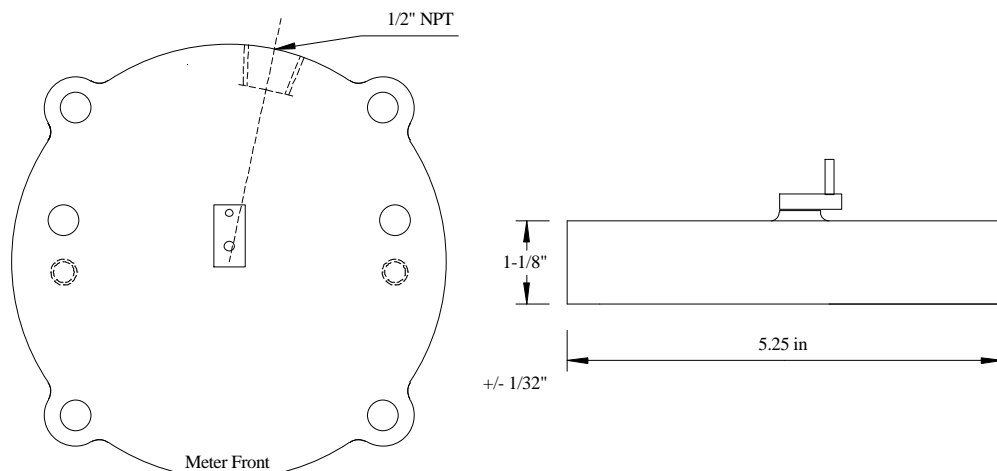
Optical Volume Pulser



- ❑ **Transmit Rate & Volume Data**
- ❑ **Fits all Industrial/Commercial Meters**
- ❑ **Standard 100 Pulses/rev.**
- ❑ **Available in Other Pulse Values**
- ❑ **1/2" NPT Output Connection for Conduit**

The Miners & Pisani, Inc. OVP-100 Optical Volume Pulser is an optically actuated switch mounted in a polycarbonate housing for easy installation on commercial and industrial gas meters. Meter shaft rotation actuates the switch which can then be used to transmit the metered volume and rate to a remote totalizer or rate indicator.

Dimensions



Miners & Pisani, Inc.

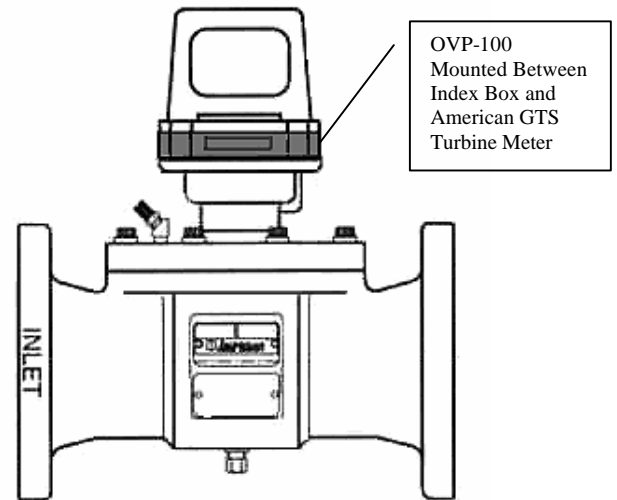
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SPECIFICATIONS / INSTRUCTIONS

SPECIFICATIONS

Cycles per Revolution: 100
Voltage (nominal): 12VDC
Operating Temperature: -40 to 150° F
Current: 50 ma
Wire Colors: Red: +V
Black: common
White: signal



MOUNTING INSTRUCTIONS

CIRCUIT DESCRIPTION

The photodetector circuit consists of two photodiode sensors and a set-reset logic circuit with Schmitt trigger inputs driving an open collector NPN transistor with pull-up resistor. The Schmitt trigger hysteresis characteristics provide high immunity to noise. The output is TTL compatible and ideal for interfacing with a number of counters or flow rate indicators.

- ❑ The OVP-100 has a universal mounting pattern to facilitate mounting on most commercial and industrial gas meters. 5/16"-18 X 2" screws are supplied for mounting. American Meter Co. mounting holes on meter should be enlarged to standard size by running a 5/16-18 tap down through the existing #18-18 threads.
- ❑ Remove the existing meter index or instrument from the meter. Place the OVP-100 over the mounting holes and reinstall the original index or instrument using the supplied screws.
- ❑ The American Meter index drive shaft is not concentric with the mounting bolt circle. Care should be taken to mount the OVP-100 with the wiring access hole to the back of the meter to insure proper alignment of the drive shaft and the driven shaft.

OPTIONAL EQUIPMENT

- ❑ Intrinsically Safe Barrier
- ❑ Battery Powered Remote Totalizer
- ❑ 4-20 ma Converter

CAUTION

- ❑ The OVP-100 is designed to operate with high impedance loads and cannot be used to directly operate solenoid actuated devices or similar inductive loads. To operate the OVP-100 in circuits containing inductive loads or at ratings above those listed for the circuit, additional protective devices must be used.
- ❑ Care must be exercised when installing electrical equipment in locations deemed hazardous by local authorities. When OVP-100 pulsers are installed in such locations, the pulser must be protected by an energy limiting barrier located in a non-hazardous area.

