

Specification Sheet



Industrial Pulsers for H4000 Turbine Meters (Cast Iron)

Sizes 1 1/2" - 4"

Description

These units are designed for use with H4000 Cast Iron Turbine meters (formerly WP4000).

The pulsers are NEMA 4 rated with approximately 6.5 feet of shielded cable, 2 wire, for the PG100 and 3 wire for PV14.

These units are designed to attach to the standard register via a dovetail slot in the register body.

PG100: REED SWITCH (2 WIRE)

The pulse element is a dry contact reed switch rated at 10 watts, noninductive, magnetically actuated to provide a 50/50 open close ratio and requires power from an external source. Note: A 100 Ohm resistor is wired in series with the reed switch for protection from surges.

PV14

The unit is an opt-electronic sensor which detects the motion of reflective strips attached to the register gearing.

The pulse rate is determined by the positioning of the spindle within the register and is specified upon order.

An electronic processes the output for interfacing with monitoring equipment.

The BPG10 is available by special order for bi-directional outputs.

Specifications

These pulsers are field retrofittable with H4000 only. The PV14 requires a TDD register with dovetail slots

Contact Closure Rate (PPG)

PG100: (2 Wire) 10 Watt Reed Switch, 100 Ohm Resistance, 24 VDC (Max)

1 1/2" thru 4" = 1 Cont/10 USG or 1 Cont/10 Liter
1 Cont/1000 USG or 1 Cont/1000 Liter

6" thru 10" = 1 Cont/100 USG or 1 Cont/100 Liter
1 Cont/1000 USG or 1 Cont/1000 Liter

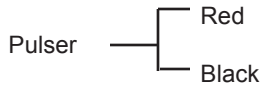
PV14: (3 Wire) Opto-Electronic, 12-24 VDC, 15/25 mA (Max)

1 1/2" thru 4" = 1 Cont/USG or 1 Cont/Liter

6" thru 10" = 1 Cont/10 USG or 1 Cont/10 Liter

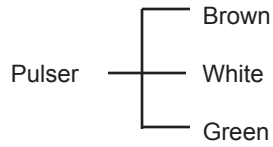
NOTE: No dimensional difference when pulsers are added to the standard meter.

PG100 Wiring Diagram: (2 Wire) 10 Watt Reed Switch, 100 Ohm Resistance



Max Voltage Switching: 24 VDC
Max Switching Current : 100 mA
Max Switch Rating: 10 Watt
Resistance: 100 Ohm in series

PV14 Wiring Diagram:



Power Supply: 12-24 VDC
Current: 15/25 mA max.
15 ohm line resistance core
50/50 open/close ratio

Note: When wiring unit to R420 a 1.2 KOhm 5% resistor (lw) must be installed between 'A' and ground to the right of 'A'. A 1.0 KOhm 5% resistor must be installed in series with common ground (white) wire.

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