

**GENERAL**

The PM5 and MSE5XP models are pulse transmitters designed to be used with Badger Meter's magnetic drive meters. The pulse transmitter provides a scaled electrical pulse signal (switch closure type) for each discrete unit of liquid volume metered. The signal is used to operate instruments and controls.

These transmitters are identical except for the housing. The PM5 transmitter has a glass filled plastic housing and a NEMA 4X rating. The MSE5XP housing is bronze with a NEMA 4 rating.

The transmitters are available in a wide range of gear ratios and pulse rates up to 1500 contact closures per minute.

**OPERATION**

The flow of liquid through the meter is measured by a disc or piston metering element. The motion of the measuring element is transferred to a magnetic coupling. One of these magnets is in the measuring chamber, the other in the transmitter.

The driven magnet (inside the transmitter) then rotates a gear train and pulse magnet. As the pulse magnet turns, it causes the reed switch to open and close. Contact closures from the switch are transmitted to a remote instrument or counter which records the quantity of flow.

**APPLICATIONS**

These transmitters are used in metering systems that require pulse closures for recording rate of flow, quantity of flow, liquid feeding, blending and batching.

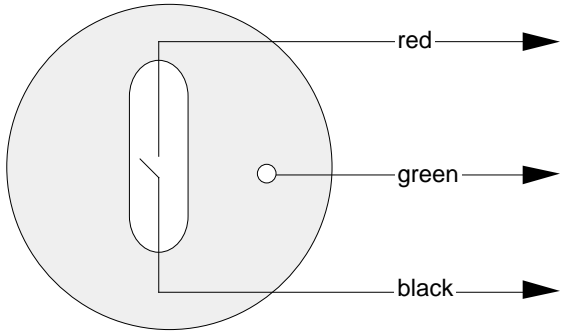


MSE5XP (rear) and PM5 Transmitters

**FEATURES**

- MSE5XP transmitter is explosion-proof with CSA listing for Class 1, Group D, Division I (Hazardous Locations)
- Does not require external power
- Rugged, Cast Bronze Housing (MSE5XP only)
- Corrosion resistant, glass filled plastic enclosure (PM5 only)
- High Temperature Rating: 250° F.
- Watertight - NEMA 4 (Bronze) or NEMA 4X (Plastic) Housing
- Hermetically sealed reed switch output

<b>SPECIFICATIONS</b>	
<b>Switch Rating:</b>	120 Volts Max., 0.5 Amp Max.
<b>Reed Switch:</b>	Single-pole, single-throw
<b>Duty Cycle:</b>	Approximately 50%
<b>Operating Temperature:</b>	250° F, maximum.
<b>Weight:</b>	Bronze: 5 lbs. Plastic: 2 lbs.



**Note:**  
The green wire is a ground wire and is found only on the MSE5XP model.

**Wiring Diagram**



Please see our website at  
**[www.badgermeter.com](http://www.badgermeter.com)**  
for specific regions and contacts.

Due to continuous research, product improvements and enhancements, Badger Meter reserves the right to change product or system specifications without notice, except to the extent an outstanding bid obligation exists.



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