



## **Series 470**

### **Submersible Level Transducer**

Submersible level transducers reliably measure the level of chemicals, water and wastewater based upon the hydrostatic pressure of the liquid above the submerged sensor's diaphragm. The transducer provides an output signal that is directly proportional to the sensed level over the calibrated range of the sensing element.

These sensors provide superior service in adverse environments. Their wetted parts of PVC, Viton, nylon and the TPE signal cable provide strong chemical resistance and electrical isolation.

#### **FEATURES**

- High chemical resistance PVC construction
- Loop powered 4-20 mADC
- Choice of ranges: 15', 23' Excursion (5, 6.5 & 10 PSI)
- Choice of cable length
- 1.25" Viton diaphragm

#### **APPLICATIONS**

- Chemical Tanks
- Water storage and recycling systems
- Process sumps
- Flow sensing in flumes and weirs

## Specifications

### Sensing Ranges (Feet of Span)

Mission 15 = 0-15' span (6.5 PSI)

Mission 23 = 0-23' span (10 PSI)

*Consult factory for other ranges.*

*Range availability based on Output*

*Version and Sensor Options.*

**Accuracy:** 1.0% over the full-scale pressure range including nonlinearity, hysteresis and repeatability (BFSL)

**Overpressure:** 3x PSI rating

### Compensated Temperature:

+32° to +180° F (0° to +82° C) non-freezing

**Wetted parts:** PVC body, Viton diaphragm, TPE signal cable with Nylon and Viton strain relief.

The 1.25" diameter diaphragm has a silicone oil fill. The internal air pressure is relieved to atmospheric pressure through a breather tube in the signal cable.

**Signal Cable:** TPE® jacket, shielded, Kevlar® support member and breather tube.

### Input/Output:

#### M Version Connections:

- Loop powered 9-30 VDC Class 2 supply (**RED** wire) [w/lead reversal protection]
- 4-20 mA output (**BLACK** wire)
- Shield/Drain - Ground

**Mechanical:** Height – 8"; Diameter – 2.25"; Cable Diameter – 0.26"

**Protection:** The PVC body provides enhanced electrical isolation from the surrounding environment.



Sensor Diaphragm (1.25" dia.)



## Ordering Information (see example below)

Model	Sensing Range (FT)	Cable Length	Options
470-1	15	40 feet	A sealed breather system is supplied With the transducer.
470-2	23	40 feet	
470-3	23	65 feet	
Consult your representative for additional options			

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