



Mission Item# 470-1

Mission Communication's submersible level transducers reliably measures 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.

Refer to www.123mc.com for further specifications and updates including: range availability.



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, the factory or www.123mc.com for additional options			

**A typical model number is 470-1

This includes a submersible level transducer with a 6.5 PSI sensor (15' max range), 4-20 mA output and 40' of cable.

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MISSION

Represented by:

3060C Business Park Drive
Norcross, GA 30071
Phone: 877-993-1911
Fax: 678-969-0541
www.123mc.com