



Submersible Level Transducer

MWI Model SLT 1000

The MWI Model SLT1000 submersible level transducer is a hydrostatic head pressure sensing type suitable for use in applications where the sump or tank is vented to the atmosphere. A diaphragm is provided on the bottom of the transducer which applies head pressure to an internal oil chamber. This pressure is transmitted to a pressure transducer that converts the pressure to a linear electrical signal. This design utilizing the oil chamber/diaphragm allows the transducer to be used in applications where contaminants would otherwise cause a clogging problem. The oil provides for minimal diaphragm deflection which increases accuracy. The transducer's main body is constructed from PVC and all hardware is stainless steel. A variety of outputs are available including 1-5 VDC and 4-20 mA.

The transducer can be furnished with a digital level controller which can be installed into a motor controller. This level controller includes relay outputs for start/stop control of two pumps and an excitation power supply for the transducer. MWI can also furnish a complete control system to meet a particular application.

The transducer can be used in a variety of applications including indicating and recording of liquid levels, control of pumps and valves, alarm monitoring and speed regulation of adjustable speed drives. The utilization of the MWI submersible level transducer can also eliminate contact between personnel and the pumped media in control systems requiring frequent level adjustments.

SPECIFICATIONS

Excitation:	8Vdc (7-16 Vdc) @ 6 mA regulated
Hysteresis & Repeatability:	0.15%FS
Zero Balance:	1+0.05 Vdc (PX186 3.5 +0.05 Vdc)
Storage Temp.:	-55 to 125°C
Operating Temp.:	-40 to 85°C
Compensated Temp.:	0 to 50°C
Thermal Effects (25-0°C/25-50°C):	2%FS (combined zero and span effects)
Response Time:	1ms
Gage Type:	Diffused Silicon
Shock:	50g @ 11ms, half sine
Vibration:	10 to 2000 Hz @ 10g



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