



PROCESS LEVEL TECHNOLOGY, LTD.
MAGNETOSTRICTIVE LEVEL TRANSMITTER
SERIES: MGT-6000

Description

PROCESS LEVEL TECHNOLOGY MGT-6000 series level transmitter is the latest in magnetostrictive level sensing technology which is designed exclusively for **MAG-GAGE™** magnetic level gages. The MGT-6000 contains a low profile waveguide that is mounted away from the level gage chamber. This durable slim design isolates the dual sealed waveguide from thermal and vibration effects. From the enhanced sensor technology, the output signal is fast, strong and extremely accurate.

Technology

The **MGT-6000** contains three elements: the transmitter head, sensor and waveguide probe. It uses the magnetic field generated by the mag-gage float to produce a proportionate level signal output. A low energy pulse generated by the transmitter electronics spans the waveguide probe and determines a base time-of-flight interval. As the float reacts to level fluctuations, the magnetic field intersects the waveguide which causes a deflection of the waveguide sensing wire. When this occurs, the time-of-flight interval changes and is detected by the transmitter sensor pickup which converts the deflection to an electrical signal. The transmitter electronics then recalculates a proportional signal output relative to the liquid level elevation.

Standard Features

- Two wire, loop powered, 24 VDC nominal
- 4-20 mA, inches/metric and/or percent output signal
- Scrolling LED **digital display** in 4-20 mA, percent or total height
- Total or interface level detection
- HART protocol field communication
- Local programmability allows for quick & easy setup
- No recalibration necessary, set it and forget it
- Non-invasive, low profile waveguide design
- Isolated from excessive thermal & vibration effects
- Top, bottom or remote transmitter head mountings
- Accurate to 0.01% of total span selected
- Stable noise free signal output
- State of the art sensor and transmitter electronics
- Unique transmitter puck design
- Simple retrofit to any magnetic level gage chamber





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MGT-6000 TRANSMITTER SPECIFICATIONS

Performance

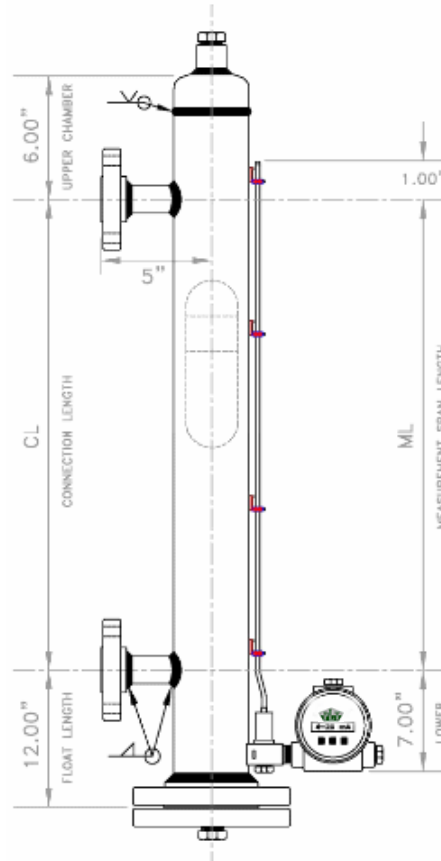
- Accuracy +/- 0.015 inches
- Repeatability 0.001% of full span
- Linearity 0.020% of full span
- Refresh Rate 10x per second
- Initiation 0.00 seconds
- Damping 0.00 to 1.00 @ 0.01 seconds
1.00 to 25.0 @ 1.00 seconds
- Upper 1.00 inch @ probe end
- Lower 7.00 inches (Deadband)

Electrical

- Input 12-30 VDC (24 VDC nominal)
- Output 4-20 mA, percent, and/or height in/cm
- Resistance 600 Ohms (max) @ 24 VDC
- Power 0.66 watts (30 VDC x 0.022 ohms)
- Error Signal 3.60 or 22.0 mA
- Interface 3 button keypad
- Software HART or PACT
- Display 2 line, 8 character LCD

Ratings

- Process Pressure Not applicable
- Ambient Temp. -40° to + 160° degrees F.
- Process Temp. -40° to + 235° degrees F. (Standard)
-40° to + 850° degrees F. (High Temp)



Ordering Information:

Model Number: MGT-6000-ML-MP
ML Specify Measurement Span Length (inches/cm)
MP Specify Mounting Position (TM = Top, BM = Bottom, RM = Remote)



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