



MAGNETOSTRICTIVE LEVEL TRANSMITTER

Model: MGT-6000

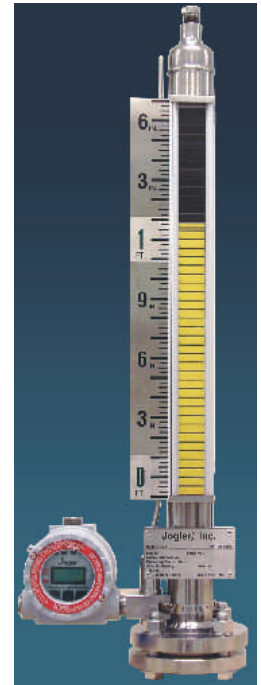
For Magnetic Level Indicators

Description

Jogler's **MGT-6000** series liquid level transmitter is the latest development in magnetostrictive level sensing technology which is designed to be used exclusively for magnetic level indicators. The MGT-6000 contains a low profile waveguide that is mounted away from the level gage chamber. This design isolates the dual sealed waveguide from excessive vibration and temperature. From enhanced sensor technology, the output signal is sensitive, fast, stable and very accurate.

Technology

The **MGT-6000** contains three elements; the transmitter head, sensor pickup and waveguide probe. It uses the magnetic field generated by the internal float to produce an electronic 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 liquid level fluctuations, the magnetic field intersects and deflects 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 recalculates a proportional signal output relative to the level elevation. The benefits are the entire transmitter remains non-invasive to process conditions.



Standard Features

- 24 VDC nominal, two wire, loop powered
- LCD display in 4-20 mA, in/cm and/or percent output signal
- Local and remote detection for total or interface elevations
- HART protocol field communication
- Local programmability allows for easy parameter changes
- Quick-Cal function for simple recalibration to any span
- Non wetted, dual sealed 316 SS low profile waveguide
- Isolated from excessive process temperature & vibration
- Top, bottom or remote transmitter head mounting locations
- Accuracy of 0.01% of total span from enhanced sensitivity
- Durable design with a strong, stable & noise free output
- State of the art sensor and transmitter electronics
- Unique transmitter puck design for ease of installation
- Maximum transmitter length of 20 feet
- Retrofits most magnetic level indicators that are available
- Capable of extreme process operating temperatures
- Explosion proof housing, NEMA Type 4X
- Class I, Division 1, Groups B, C, D
- Class II, Division 1, Groups E, F, G: Class III





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SPECIFICATIONS

Performance

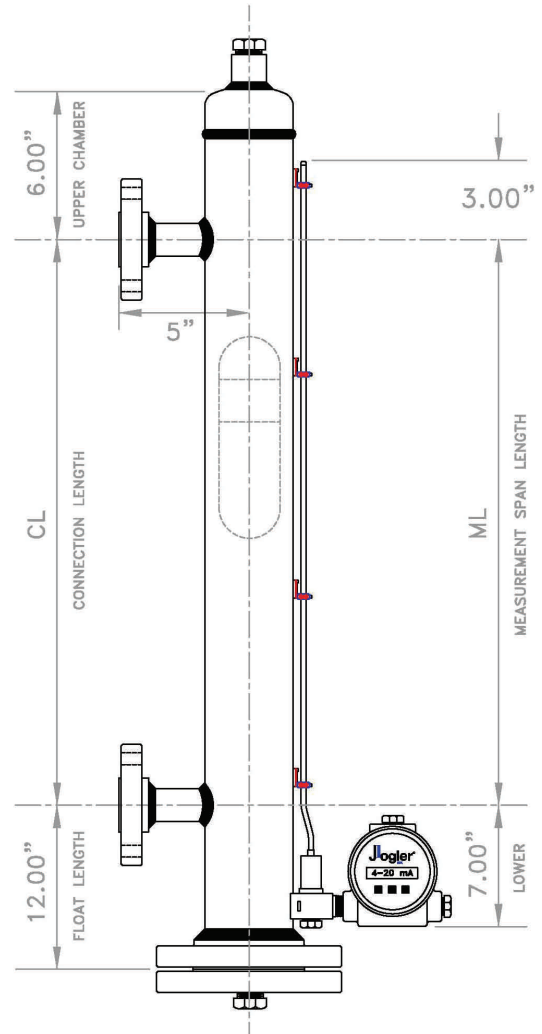
- Accuracy: +/- 0.015 inches
- Repeatability: 0.001% of full span
- Linearity: 0.020% of full span
- Refresh Rate: 10x per second
- Initiation: 0.00 seconds
- Damping: 0.00 to 1.00 @ 0.01 seconds
1.00 to 25.0 @ 1.00 seconds
- Upper: 3.00 inch @ probe end
- Lower: 7.00 inch (Head Inclusive)

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 amps)
- Error Signal: 3.60 mA (low) or 22.0 mA (high)
- Interface: 3 button keypad
- Software: HART or PACT
- Display: 2 line, 8 character LCD
- Connection: 0.75 inch FNPT

Ratings

- MAWP: Not applicable
- Ambient Temp.: -40° to +160° F (-40° to +71° C)
- Process Temp.: -150° to +400° F (-100° to +205° C)
- Area: Class I, Division 1, Groups B, C, D
Class II, Division 1, Groups E, F, G
Class III
- Enclosure: NEMA Type 4X



ORDERING INFORMATION:

Model Number: **MGT6-ML-MP-X**
 ML Measurement Span Length (inches/cm)
 MP Mounting Position (TM = Top, BM = Bottom, RM = Remote)
 X Options



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