



PROCESS LEVEL TECHNOLOGY, LTD.
MAGNETOSTRICTIVE LEVEL TRANSMITTER
SERIES: ILT-6000 (PATENT PENDING)

Description

PLT's **ILT-6000** series level transmitter is the latest in magnetostrictive level sensing technology designed for direct tank or vessel insertion. The ILT-6000 contains a low profile waveguide that is inserted into a welded thermowell and external float assembly. The thermowell isolates the waveguide from the process environment and protects it from excessive temperature and vibration effects. The benefits in this design is the transmitter can be serviced or removed without interruption to process operations. The thermowell and float assembly is available in 304/316 SS, CPVC, Alloy 20, Titanium, Hastelloy, PP or PVDF.

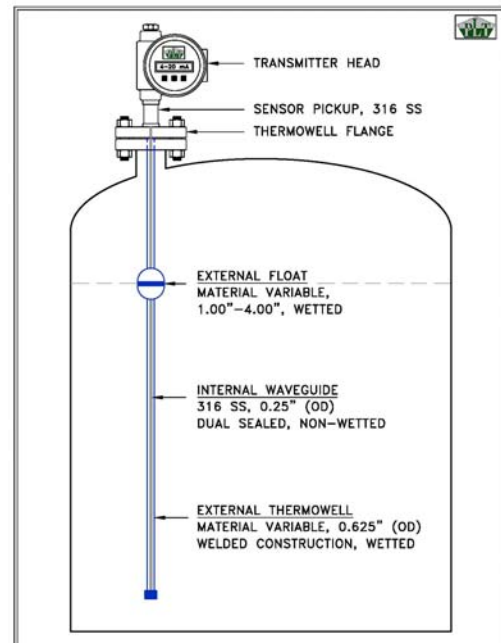
Technology

The **ILT-6000** contains five elements: transmitter head, sensor pickup, waveguide probe, external thermowell and float. It uses the magnetic field generated by the 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, in/cm or percent
- Local and remote 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-wetted, dual sealed 316 SS waveguide & sensor
- All welded thermowell and float assembly, wetted
- Top, bottom or remote transmitter head mountings
- Accurate to +/- 0.01% of total span selected
- Durable design with a strong noise free signal output
- State of the art sensor and transmitter electronics
- Unique transmitter puck design for ease of calibration
- Simple installation into any vessel or tank application
- Available in flange sizes from 1.00 to 4.00 inches.
- Ratings: Full Vacuum to 1440 PSIG (ANSI 600)





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ILT-6000 TRANSMITTER SPECIFICATIONS

Performance

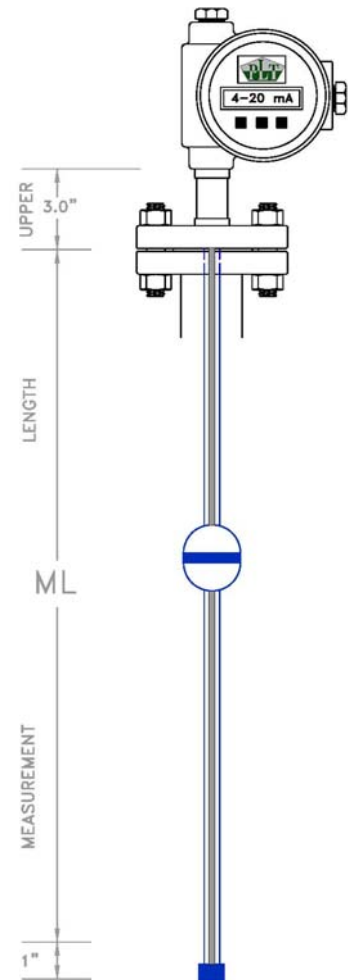
- Accuracy +/- 0.015 inches
- Repeatability 0.001% of full span
- Linearity 0.020% of full span
- Refresh Rate 10x per second
- Initiation 0.00 seconds
- Damping 0.00 to 1.00 @ 0.01 seconds
1.00 to 25.0 @ 1.00 seconds
- Upper 3.00 inch (including sensor)
- Lower 1.00 inches @ probe end

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 + 500° degrees F. (High Temp)



Ordering Information:

Model Number: ILT6-VM-CS-CR-SG-PSIG-TEMP-ML-X

VM	Vessel / Tank Material	PSIG	Max. Operating Pressure
CS	Connection Size	TEMP	Max. Operating Temperature
CR	Connection Rating	ML	Measurement Length
SG	Specific Gravity @ MAWP/MAWT	X	Options



Manufactured In Houston, Texas USA



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