

# LTM-350 Magnetostrictive Level Transmitter



**LTM-350  
"INTELLIGAUGE"**

## Features

- **Dynamic RoC filter**
- **Simple configuration**
- **Auto detect configuration errors**
- **Power optimization software**
- **Factory set threshold - fit and forget**
- **Minimal dead band**
- **Outputs include 4-20mA, HART, FF**

## Description

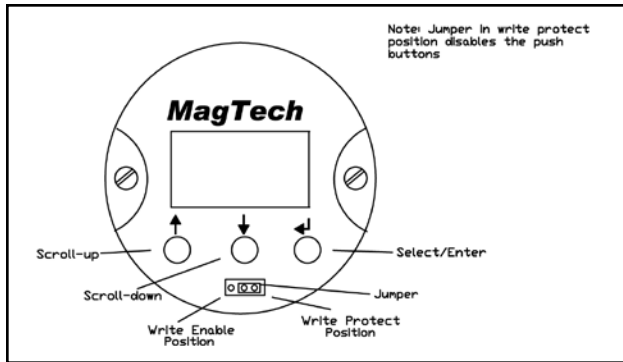
MAGTECH re-introduces the market's smartest Magnetostrictive Level Transmitter, the LTM-350. The LTM-350 series has a similar look and feel to the LTM-300, but is packed with many new innovative enhancements - from HART 7 to error proof configuration. In addition, the LTM-350 features modular electronics and multiple output options including 4/20 mA, HART (6 or 7), and wireless HART. The LTM-350 may be externally mounted to any MAGTECH LG Series Mag Gage, or as a direct insertion level probe. This feature-packed instrument is the perfect solution to many of the industry's most difficult level measurement applications.

**Magtech**

**Innovators not Imitators**

3902 Magnolia Rd., Pearland, Texas 77584  
PH.: 281/488-0788 FAX: 281/488-7080 E-MAIL: [magtech@isemagtech.com](mailto:magtech@isemagtech.com)  
[www.isemagtech.com](http://www.isemagtech.com)

## Electronic Display



## Features and Benefits

### RoC Filter

- Integral filter to suppress noise
- Maintains signal to noise ratio

### Simple 4-20 mA Configuration and Ranging

- Simply change LRV or URV in units
- No re-calibration required

### Error proof Calibration

- Auto detect calibration errors
- Defaults to factory settings

### Software Controlled eEnergy

- Optimizes power requirement for sensor length

### Threshold

#### (DC Offset, self compensating)

- Factory set — no threshold adjustments
- Maintains signal to noise ratio

### Dead band

- Virtually no dead bands (at electronics)

### Communication

- HART rev. 6 or Rev. 7 (open protocol)
- Registered DD (Device description)
- Registered EDDL (Enhanced Device Description Language)
- AMS, Asset Management System

### Diagnostics

- Basic diagnostics via local display
- Advance diagnostics via HART

## Electronic Specifications

Supply Voltage:	13 to 36 VDC
Repeatability:	.005% of full scale or .010"; whichever is greater
Non-Linearity:	.01% of full scale or .030"; whichever is greater
Level Sensor Accuracy:	.01% of full scale or .020"; whichever is greater
Analog Output:	(1) 4/20 mA primary level
Resolution:	.025% of full scale
Output:	Primary level, (1) 4/20 mA optional digital outputs via HART for temperature or interface detection
Calibration:	Zero and span field adjust with push buttons or HART. Secondary level is auto-detect temperature is configured via HART or AMS only
Diagnostics:	On board diagnostics for troubleshooting
Dampening:	1 to 25 seconds (field adjustable via DISPLAY)
Oper. Temp. (electronics)	-58 to 185°F (-50 to 85°C)
Housing:	Explosion Proof, Dual Compartment, 1/2" NPT, Epoxy Coated Aluminum optional Stainless Steel
Polarity Protection:	Diode in series with the loop
Approvals:	CSA Exp (Expl. Proof): Cl. I, Div. 1, Grp. B, C, D Cl. II, Grp. E, F, G
Humidity Limits:	SAMA PMC 31.1-5.2
Vibration Limits:	SAMA PMC 31.1-5.3
RFI Limits:	SAMA PMC 31.1-20 to 1000 MHz up to 30V/m

## Transmitter Sensor Tube

Material:	316ss standard, optional Hastalloy, Monel, Kynar coated
Operating Temp.:	-50 to 302°F (-50 to 150°C)
Max. Pressure:	2000 psig @ 300°F
Range:	12" to 30 ft.