

BABBITT INTERNATIONAL



Magnetostrictive Direct Insertion Transmitters

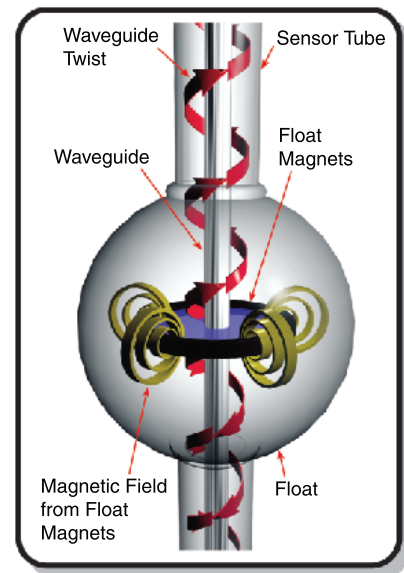
- Precision Accuracy up to .01% F.S. (.005% Repeatability)
- Dual 4-20 mA Output (simultaneous) for Level and Interface or Level and Temperature
- Smart Transmitter for HART Protocol
- Diagnostics with Field-replaceable Electronics
- No Maintenance or Recalibration Required
- Field Adjustable Zero and Span
- Remote Reading and Local Indicator Options
- Digital Outputs
- AMS (Automated Management System)



LTM Series Magnetostrictive Level Transmitters may be used as stand-alone top-mounted level transmitters or mounted externally on the LG Series magnetic level gage. They are typically used in applications where precision accuracy / high repeatability are required.



- Loop-powered single or dual 4-20 mA output(s)
- Push button calibration and HART Protocol
- Local indicator options
- Temperatures to 800°F (427°C), (gage mtd. option)
- Dual output options for interface or temperature
- Accuracy up to 0.01% FS (0.005% repeatability)
- Self diagnostics with field replaceable electronics
- 1-26 sec. adjustable time delay
- Special alloy sensors (Monel, Hastalloy, Kynar, etc.)
- Mounts from tank top via flange or coupling or externally to magnetic level gage
- Integral digital display (LTM-200D/300)



- Underground tank gaging
- Batching processes
- Inventory control
- Process level control
- Interface levels
- Corrosive service
- High pressure service (2,000 psi)
- Sanitary service (CIP/SIP)

Model (Example): LTM-300-316 -3/4" - 0.60 - 150 - 300 - 30" - X

100
200D (Dual Housing)
200 (Single Housing)
300

Probe Material
316 = 316 SS
TFE = Teflon Sleeve
KYN = Kynar Sleeve
Specified Materials (Spell Out)

Mounting Connections
3/4" NPT Standard or
Specify Connection Type & Size

Min. Op. Specific Gravity
Max. Op. Temp. (°F)
Ma. Op. Pressure (PSIG)
Measuring Length in Inches
(See Drawing)

Options (Spell Out)

Options (Open Out)	LTM-100	LTM-200/200D	LTM-300
Model	LTM-100	LTM-200/200D	LTM-300
X = HART Output	Yes	No	Yes
X = Temperature Output	4-20 mA	No	Digital
X = Interface (Specify both Gravities)	Yes	No	Yes
X = Dual Outputs	Yes	No	Yes
X = Flange Mounted	Yes	Yes	Yes
X = Stilling Well	Yes	Yes	Yes
X = Electropolish / 3A	Yes	Yes	Yes
X = Digital Readout Option	Yes	Yes	Yes
X = Remote Mounted Electronics	Yes	Yes	Yes

Note: For information on non-intrusive LTM transmitters mounted to magnetic level gauges consult factory.



Two outputs available on a single sensor; one for total fluid level and one for interface level.

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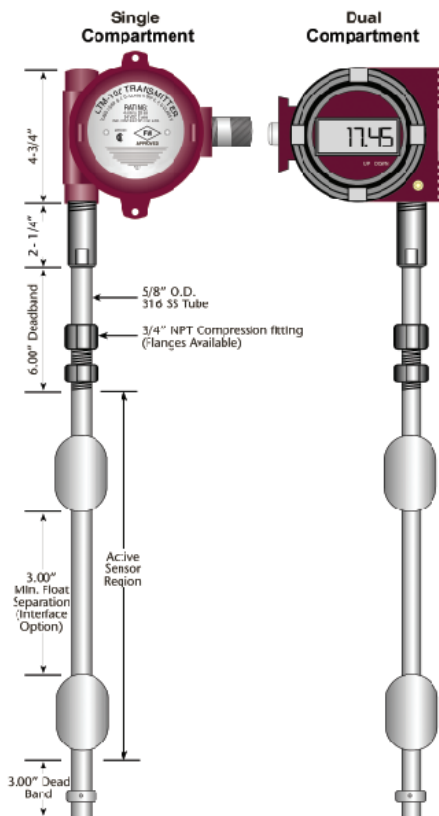
Applications

- Oil & Gas
- Petrochemicals
- Power Industry
- Maritime
- Biotechnology
- Food Processing
- Beverages
- Pharmaceuticals
- Coatings
- Industrial Gasses
- ... and more



LTM Series Feature List

Model	LTM-100	LTM-200	LTM-200D	LTM-300
Microprocessor Based	Yes	Yes	Yes	Yes
Total or Interface Level	Yes	Yes	Yes	Yes
2nd Output Option	Analog	No	No	Digital
Temp. Output Option	Analog	No	No	Digital
Dual Compartment Housing	No	No	Yes	Yes
HART Protocol Option	Yes	No	No	Standard
Integral LCD Available	Yes	Yes	Yes	Standard
Viewing Glass Option	Yes	Yes	Yes	Yes
316 SS Enclosure	Option	Option	No	No
Volume Correction Option	No	No	Yes	No
Encapsulated Electronics	No	No	Yes	Yes
Field Replaceable Electronics	Yes	Yes	Yes	Yes
Accuracy	.01% of Range	.02% of Range	.01% of Range	.01% of Range
Repeatability	.005% of Range	.01% of Range	.01% of Range	.005% of Range
Non-Linearity	.01% of Range	.02% of Range	.01% of Range	.01% of Range
Failsafe	Field Selectable	Field Selectable	Field Selectable	Field Selectable
Remote Indicator	Option	Option	Option	Option
Damping	Field Adjustable	Field Adjustable	Field Adjustable	Field Adjustable
Ingress Protection	NEMA 4X/IP 67 XP/I/I/BCD/T3	NEMA 4X/IP 67 XP/I/I/BCD/T3	NEMA 4X/IP 67 XP/I/I/BCD/T3	NEMA 4X/IP 67 XP/I/I/BCD/T3
	DIP/II, III/EFG/T3	DIP/II, III/EFG/T3	DIP/II, III/EFG/T3 IS/I/I/CD/T3	DIP/II, III/EFG/T3 IS/I/I/CD/T3



LTM Series Specifications

Model	LTM-100	LTM-200/200D	LTM-300
Electronics			
Supply Voltage:	15-36 VDC	15-36 VDC	15-36 VDC
Temperature:	-40 to 150°F -40 to 66°C	-40 to 150°F -40 to 66°C	-40 to 150°F -40 to 66°C
Damping:	1-15 Seconds	1-15 Seconds/1-25	1-25 Seconds
Diagnostics:	Onboard	Onboard	Via HART (AMS)
Calibration			
Primary Output:	Pushbutton	Pushbutton	Pushbutton
Secondary Output:	Pushbutton	Pushbutton	Via HART

Sensor Tube Assembly

Material: 316 SS, 5/8" tubing standard, other materials available
 Operating Temperature: -50 to 300° F (higher pressure on gage mounted)
 Maximum Pressure: 2,000 psig @ 300° F (higher pressure on gage mounted)
 Maximum Length: 30 feet
 Mounting: 3/4" MNPT compression fitting standard; flanged available (2" min. nozzle size for float entry)

Stilling Well

For sensor lengths over 10 ft. or in agitated service, a stilling well is recommended. Consult factory for drawings and specifications.

Options

Displacer Replacers

Use **Babbitt** magnetostrictive transmitters to retro-fit or replace existing displacers.

Non-Invasive Level Transmitters

Babbitt's non-invasive transmitters are easily mounted to our magnetic level gages. They provide a continuous 4-20 mA control signal proportional to liquid level and are easily retrofitted to existing gages in the field.



Local Indicators

Numerous local indicator options are available from **Babbitt**. Contact your factory representative for full details.



Represented By:

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LTM-04A

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