LEVEL TRANSMITTER · FOR MAGNETIC LEVEL GAUGES

LEVELSYNC™

Magnetostrictive level transmitter

LevelSync is the Lamont Controls magnetostrictive level transmitter, supplied and configured for Lamont magnetic level gauges. It mounts outside the gauge chamber and reads the same float that drives the indicator. The electronics are isolated from the process, with no wetted parts and no additional vessel nozzle. Time-of-flight sensing provides a continuous 4–20 mA signal with HART®. No moving parts and no routine recalibration.



OUTPUT	ACCURACY	HAZARDOUS AREA
4–20 mA / HART Modbus opt.	**±1 mm** ±0.039 in	**IS** / XP ATEX · IECEx

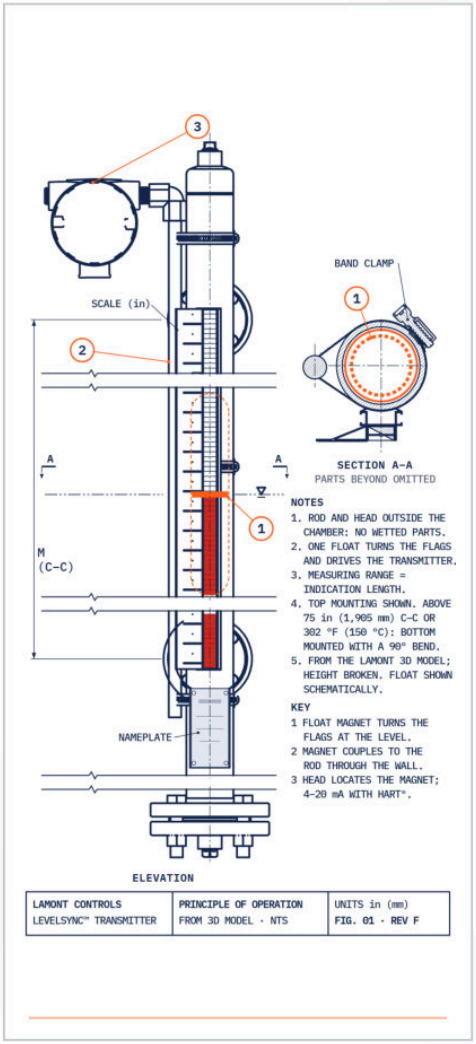
01 KEY HIGHLIGHTS

- Level transmitter for magnetic level gauges
- External, non-wetted measurement technology
- Magnetostrictive time-of-flight sensing principle
- Continuous 4–20 mA output with HART (Modbus RTU or DDA optional; SIL 2 version on request)
- No moving parts and no routine recalibration
- Integral local display available
- Intrinsically safe and explosionproof versions available
- Compatible with Magnamont™, Fortimag™ and Polysight™

02 KEY BENEFITS

- Isolation from the process: the electronics read the gauge float through the chamber wall
- High measurement stability: accurate and repeatable level output suitable for control and monitoring applications
- Lifecycle cost: no moving parts and no routine recalibration
- Installation flexibility: external mounting allows factory or field installation without vessel penetration
- System compatibility: fits every Lamont magnetic level gauge (option MLT)

Supplied by Lamont Controls. Hazardous-area certifications are held by Lamont's component manufacturing partner and apply to the supplied product. Final certification, temperature class and marking depend on configuration and are confirmed at quotation.



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Technical specifications

LEVELSYNC MAGNETOSTRICTIVE LEVEL TRANSMITTER

CATEGORY	OPTIONS / SPECIFICATIONS
Measured variable	Liquid level (total or interface, application dependent).
Measuring principle	Magnetostrictive, time-of-flight.
Sensing method	External, non-wetted, magnetic coupling to the gauge float.
Output signal / protocol	Analog (4–20 mA) with HART® · Modbus RTU or DDA (optional) · SIL 2 version (4–20 mA / HART®) available on request.
Measurement range	Equal to magnetic level gauge indication length.
Order length	305–3,658 mm (12–144 in); longer lengths on request.
Inherent accuracy	±1 mm (±0.039 in).
Repeatability	±0.001 % F.S. or ±0.381 mm (±0.015 in), whichever is greater.
Supply voltage	10.5–28 VDC (loop powered).
Fail-safe mode	Modbus / DDA: High, full scale Analog / HART®: Low (3.5 mA default) or high (22.8 mA)
Reverse polarity protection	Yes.
EMC compliance	EN 61326-1, EN 61326-2-3, EN 61326-3-2, EN 61000-6-2/-3, EN 61000-4-2/-3/-4/-5/-6/-8.
Enclosure rating	NEMA Type 4X, IP65.
Humidity	0–100 % relative humidity, no condensation.
Operating temperature	Ambient (electronics): −40 to +71 °C (−40 to +160 °F) Sensing element: −40 to +125 °C (−40 to +257 °F)
Process temperature (gauge)	Up to 150 °C: Standard mounting (up to 302 °F). 150 to 275 °C: Thermal standoff, bottom mounted with a 90° bend (302–527 °F). Above 275 °C: Consult factory (above 527 °F).
Mounting	External mounting to magnetic level gauge chamber.
Mounting orientation	Top, bottom, or side (application dependent). Bottom mounted with a 90° bend above 1,905 mm (75 in) centre to centre or above 150 °C (302 °F).
Wetted parts	None.
Housing materials	Epoxy-coated aluminum (standard) or 316L stainless steel (option).
Sensor rod material	316L stainless steel.
Wiring	4-wire shielded cable or twisted pair · 6-pin male connector · 180 in (4,572 mm) integral cable with pigtail.
Electrical connection	¾" FNPT conduit opening (M20 for ATEX / IECEx / UKCA versions) · ½" FNPT (NEMA Type 4X).
Intrinsically safe (IS)	Class I, Div. 1 / Zone 0–1, Gas Groups A–D / IIC.
Explosionproof / flameproof	Class I, Div. 1 / Zone 1, Gas Groups B–D / IIB + H_2.
Regional approvals	NEC / CEC (FM, FMc), ATEX, IECEx, UKCA. Hazardous-area certifications are held by Lamont's component manufacturing partner and apply to the supplied product. Final certification, temperature class and marking depend on configuration and are confirmed at quotation.
Compatible with	Magnamont™ · Fortimag™ · Polysight™.
Ordering	Add option MLT to the gauge model code. Output protocol, housing and hazardous-area rating are specified with the order.

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