SPECIFICATION SHEET

FORTIMAG™

High-pressure magnetic level gauge

Built for extreme service: high pressure, high temperature, hazardous fluids and projects with full documentation requirements. The double-flanged chamber, with weld-neck flanges and dual internal stop springs, forms an all-metal pressure boundary that reduces potential leak paths. Each gauge is engineered to order for the vessel, the fluid and the piping code specified.

PRESSURE	TEMPERATURE	LENGTH
345 bar	**−40 / +450** °C	**222** in
5,000 psig · Class 2500	−40 / +842 °F	5,640 mm

01 KEY HIGHLIGHTS

- To 5,000 psig (345 bar); Class 2500 flanges built to order
- Operating range −40 °C to +450 °C (−40 °F to +842 °F); lower temperatures on application review
- Double access flanges (top and bottom) and dual internal stop springs
- Weld-neck flanges standard
- Optional VaporGuard™ (VG) flashing-service float protection — prevents vapour entrapment under boiling or flashing conditions
- SS316; custom and exotic alloys available (consult factory)
- ClearView™ indicators rated to 450 °C (842 °F)

02 KEY BENEFITS

- For high-pressure, high-temperature and hazardous service
- All-metal pressure boundary; no glass in the pressure boundary
- ASME B31.1 or B31.3 construction, with full material traceability
- Integrates with SurePoint™ level switches (PLS) and LevelSync™ magnetostrictive level transmitter (MLT)



FIG. 01 SIDE-SIDE

+1 416 800 0739

info@lamontcontrols.com
www.lamontcontrols.com

800–120 Eglinton Ave E
Toronto, ON M4P 1E2
Canada

Technical specifications

FORTIMAG MAGNETIC LEVEL GAUGE

CATEGORY	OPTIONS / SPECIFICATIONS	
Chamber configurations	Side–Side · Top–Bottom · Top–Side · Bottom–Side · Top Mount. Custom-engineered dual-chamber arrangements available on request (option X).	
Chamber diameters	1.5″, 2″ (standard), 2.5″ (Class 1500); Class 2500 and special sizes built to order on application review.	
Chamber construction	Heavy-duty chamber design with double flanged ends (top and bottom) and dual internal stop springs to limit float travel and protect internal components under severe service conditions.	
Measuring range	Standard lengths to 222 in (5,640 mm) centre-to-centre; longer lengths on request.	
Accuracy	Typical ±10 mm (±0.4 in), subject to float design and application conditions.	
Specific gravity range	≥ 0.34 minimum, subject to float design and application conditions.	
Pressure range	Full vacuum to 5,000 psig (345 bar); Class 2500 flanges built to order. Flange classes: ANSI 150 / 300 / 600 / 900 / 1500 / 2500 · DIN PN10 / 16 / 25 / 40 · JIS J5K–J20K (DIN / JIS: special-order flanges). Pressure and temperature ratings depend on materials, connections and configuration, and are confirmed at quotation.	
Temperature range	−40 °C to +450 °C (−40 °F to +842 °F), depending on chamber material and application conditions. Lower temperatures on application review.	
Float materials — MagnaLine™	Standard Optional Custom (CU) Minimum SG	Titanium (TI) 316 SS Consult factory 0.34
Chamber materials	SS316 (standard). Custom / exotic alloys and linings (CC) — consult factory.	
Construction code	IG B1 B3	Industrial Grade ASME B31.1 Power Piping ASME B31.3 Process Piping
Process connections	Flanged, threaded (FNPT / MNPT), or welded (Weldolet, Sockolet). ANSI / NPT ½″–4″; DIN DN15–DN65; JIS 15A–50A.	
Indicator options — ClearView™	ISFS-300 ISF-300 IAF-450 HS-300 IX	Stainless steel flags, aluminum housing with scale — max 300 °C (standard) Stainless steel flags, aluminum housing, no scale — max 300 °C High-temperature aluminum flags, with scale — max 450 °C Hermetically sealed indicator, argon-filled, stainless housing with scale — max 300 °C No indicator
Scale options	Feet & Inches (IMP) · Metres / cm (MET) · Percent 0–100 % (PER) · Gallons (GAL) and Litres (LIT), each custom-graduated to tank volume · No Scale (NS) · Custom (CUS).	
Scale material	Etched aluminum scale resistant to UV exposure, abrasion, and chemical attack. Marking compliant with MIL-STD-130N and related identification standards. Optional non-metallic scales available for enhanced chemical resistance.	
Vent & drain options	Threaded (MNPT / FNPT) ⅛″, ¼″, ⅜″, ½″, ¾″, 1″; flanged (FL) ½″, ¾″, 1″; or custom machined ports (CS). No vent = NV-00 · No drain = ND-00.	
Surface finishes & treatments	PA — Passivated EP — Electropolished PT — Painted PC — Powder Coated	Full-immersion per ASTM A380 / A967 (standard, stainless) External surfaces per ASTM B912 External finish External finish
Options & accessories	MLT PLS-1 to PLS-8 FS IB HT INTSGX.XX VG X	LevelSync™ magnetostrictive level transmitter SurePoint™ clamp-on switches (Qty 1–8) FloatSense™ float-integrity monitoring (NF = none, default) Insulation blanket Heat tracing Interface service — second liquid SG (specify, e.g. INTSG0.85) VaporGuard™ flashing-service float protection (Fortimag only) Custom options
Testing & quality assurance	Material traceability NDE — Visual (VT) — Dye penetrant (PT) — RT / UT — PMI Pressure testing Additional	Maintained throughout manufacturing; MTRs available. Performed in accordance with applicable project-specified codes and standards (e.g., ASME B31.1, ASME B31.3, or other governing codes), where required: Of welds and final assembly Of fillet welds, where applicable Radiographic / ultrasonic examination of full-penetration butt welds, where specified For alloy verification, where specified Pressure tested before shipment; hydrostatic test at not less than 1.5 × design pressure where specified. Test reports available. Inspection, testing, and documentation available upon request.

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