SPECIFICATION SHEET

MAGNAMONT™

Magnetic level gauge

A 316 stainless steel magnetic level gauge for storage tanks, process vessels, boilers, drums and utility skids. The welded chamber isolates the indicator from the process and reduces potential leak paths. There is no glass in the pressure boundary and no wetted electronics. Each gauge is engineered to order for the vessel, the fluid and the piping code specified.

PRESSURE	TEMPERATURE	LENGTH
234 bar 3,400 psig	**−40 / +450** °C −40 / +842 °F	**222** in 5,640 mm

01 KEY HIGHLIGHTS

- ASME B31.1 or B31.3 construction, or industrial grade
- Pressure ratings up to 3,400 psig (234 bar)
- Operating range −40 °C to +450 °C (−40 °F to +842 °F); lower temperatures on application review
- 316 stainless steel construction; custom and exotic alloys available (consult factory)
- Configurable for side, top, or bottom chamber connections
- High-visibility indicators with multiple styles and scale options
- Compatible with SurePoint™ level switches, LevelSync™ magnetostrictive level transmitters, insulation blankets, and heat tracing
- FloatSense™ option for float-integrity monitoring

02 KEY BENEFITS

- Simple mechanical operation — no electronics required for indication
- Flags isolated from the process; they do not cloud or stain
- Welded chamber reduces potential leak paths
- No glass in the pressure boundary
- High-contrast flags show the level at a distance
- LevelSync™ and SurePoint™ mount outside the chamber; no new nozzles

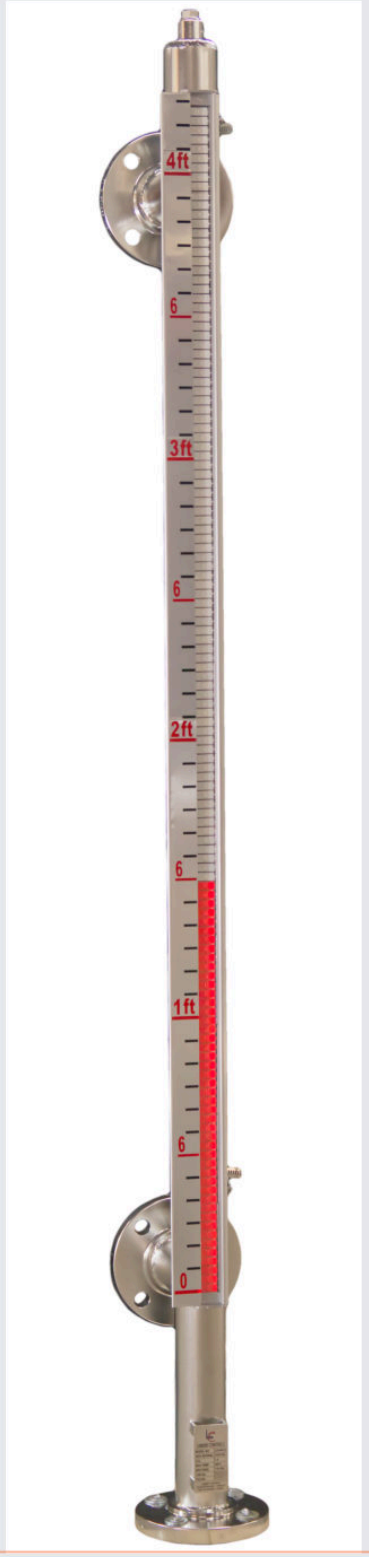


FIG. 01 SIDE-SIDE

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Technical specifications

MAGNAMONT 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″ (schedule and material per design requirements). Special sizes on application review.	
Chamber construction	Welded 316 chamber with slip-on process flanges; internal float stop spring (bottom).	
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 3,400 psig (234 bar). Flange classes: ANSI 150 / 300 / 600 / 900 / 1500 · 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 Minimum SG	Titanium 316 SS Exotic / coated floats — consult factory 0.34
Chamber materials	SS316 standard. Custom / exotic — 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 (optional) 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 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) Custom options
Testing & quality assurance	Material traceability NDE — Visual (VT) — Dye penetrant (PT) — 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 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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