SPECIFICATION SHEET

POLYSIGHT™

CPVC and PVDF magnetic level gauge

Designed for acids, caustics and salts in chemical storage tanks, water and wastewater treatment, and OEM skid systems. The thermoplastic chamber has no glass and, with a standard non-metallic float, no metal in the wetted path. The indicator mounts outside the chamber, isolated from the process. Each gauge is engineered to order for the chemistry, the vessel and the fluid's specific gravity.

PRESSURE	TEMPERATURE	LENGTH
10 bar 150 psig	**−20 / +120** °C −4 / +248 °F	**222** in 5,640 mm

01 KEY HIGHLIGHTS

- Thermoplastic construction using CPVC and PVDF
- Designed for corrosive service in non-metallic process systems
- Pressure ratings up to 150 psig (10 bar) for low-pressure applications
- Operating range −20 °C to +120 °C (−4 °F to +248 °F), material-dependent
- Lightweight mechanical construction
- Available with PVC flag, stainless steel flag, or hermetically sealed indicators
- Standard non-metallic floats: PP, PVDF or PTFE

02 KEY BENEFITS

- CPVC or PVDF, selected for the process chemistry; both resist the acids, caustics and salts that corrode metal
- No glass in the pressure boundary
- Lightweight chamber, simple to install and support
- Indicator mounts outside the chamber, isolated from the process
- Engineered to order for the chemistry, the vessel and the fluid's SG
- LevelSync™ and SurePoint™ mount outside the chamber; no new nozzles



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

POLYSIGHT MAGNETIC LEVEL GAUGE

CATEGORY	OPTIONS / SPECIFICATIONS	
Chamber configurations	Side–Side · Top–Bottom · Top–Side · Bottom–Side · Top Mount.	
Chamber diameters	2″ (schedule and material per design requirements). Custom sizes (SP) available on request.	
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	≥ 0.59 minimum, subject to float design and application conditions.	
Pressure range	Full vacuum to 150 psig (10 bar). Flange class: ANSI 150 standard; DIN PN10 · JIS J5K available on request. Pressure and temperature ratings depend on materials, connections and configuration, and are confirmed at quotation.	
Temperature range	Operating range −20 °C to +120 °C (−4 °F to +248 °F), material-dependent. Chamber ceiling: CPVC ~93 °C, PVDF ~120 °C (service-dependent). Maximum operating temperature is further limited by float rating (PP 80 °C, PVDF 100 °C, PTFE 120 °C).	
Float materials — MagnaLine™	Polypropylene (PP) PVDF (PV) PTFE (TF) Custom (CU)	SG ≥ 0.59, ≤ 80 °C SG ≥ 0.79, ≤ 100 °C SG ≥ 0.84, ≤ 120 °C, low-pressure service — consult factory Consult factory
Chamber materials	CPVC (standard). PVDF. Custom / exotic (CC) — consult factory.	
Construction	Industrial Grade (IG) — thermoplastic fabrication.	
Process connections	Flanged (FL), FNPT, MNPT. Sizes 1″, 1.5″, 2″ (default); 3″ consult factory. Custom (CS) available on request.	
Indicator options — ClearView™	IPVC-80 IPVC-120 ISFS-300 HS-80 IX Note	PVC flags, transparent PVC housing — max 80 °C (standard) PVC flags, aluminum housing with scale — max 120 °C Stainless steel flags, aluminum housing with scale — 300 °C (indicator rating; Polysight ceiling 120 °C) Hermetically sealed indicator, argon-filled, condensation / fog-proof — max 80 °C No indicator For corrosive-fume environments, PVC-housed indicators (IPVC-80) are recommended; hermetically sealed (HS-80) for condensation, humidity, or washdown.
FloatSense™	FloatSense™ (FS) float-integrity monitoring available; NF = none (default).	
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).	
Vent & drain options	Threaded: FNPT (standard) or MNPT. Sizes ½″ (default), ¾″, 1″. Flanged vents / drains: consult factory. No vent = NV-00 · No drain = ND-00.	
Surface finishes	Natural (NT) standard. Painted (PT) on CPVC only for outdoor / UV service — not available on PVDF.	
Options & accessories	MLT PLS-1 to PLS-8 INTSGX.XX X	LevelSync™ magnetostrictive level transmitter SurePoint™ clamp-on switches (Qty 1–8) Interface service — second liquid SG (specify, e.g. INTSG0.85) Custom options
Testing & quality assurance	Inspection Pressure testing Leak testing Documentation Additional	Visual inspection of solvent- and fusion-bonded joints and overall assembly Pressure tested before shipment; hydrostatic test with clean water at not less than 1.5 × design pressure (1 hour minimum) where specified Where specified, a 24-hour water-fill test after the hydrostatic test; no visible leakage or weeping Test certificates available Inspection methods available upon request, where applicable

+1 416 800 0739

info@lamontcontrols.com
www.lamontcontrols.com

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