

MAG-GAGE® THE SUPERIOR MAGNETIC LEVEL GAUGE

- Patented Wide-Flag[®]
 Solid Design Magnet
 -350° / 1100° F rating
- Standard 2 to 4 week delivery Expedited delivery available
- Constructed to meet ANSI/ASME codes B31.1/B31.3 Min. Sch 40
- No Pressurized Floats
- All Welds are GTAW/TIG No MIG or T-Drilling
- Replaces Sightglasses

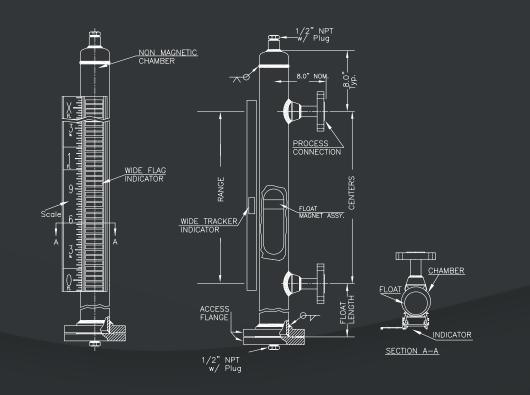


The Process Level Technology Mag-Gage[®] is a proven method to measure liquid levels. The Mag-Gage[®] is one of the safest and most economical ways to measure and control your level requirements. It can be installed on almost any shape, size or type of vessel in the industry. In applications of extreme pressure, temperature, vibration and highly corrosive or hazardous material the Mag-Gage[®] will perform where others fail.

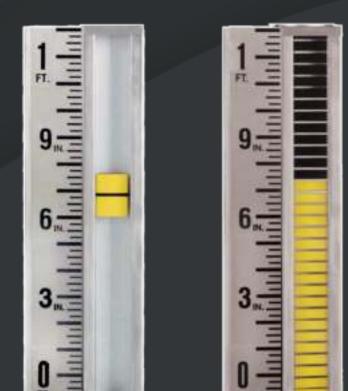
Principles of Operation

The Chamber is constructed of non-magnetic materials, and process connections to mate with those of the tank, vessel or other equipment where the level is to be measured.

The Float is engineered and located inside the Chamber. It is sized and weighed to the specific gravity of the process fluid to be measured. The float contains a 360° Magnetic Assembly which generates a strong uniform magnetic circuit. The magnetic Flux Lines generated by the float interlocks with the indicator. The hermetically sealed Indicator, the Wide Flag® or Wide Tracker® Style, contains its own magnetic assemblies which interlock with the float through the Chamber, providing a strong and reliable design. As the Float moves with the changes in the liquid level, the magnetic attraction between the Indicator and Float will ensure that the Indicator will track the position of the float exactly and the liquid level is measured precisely.







Wide Tracker®

Wide Flag® (Patented)

Wide Tracker®

- Extra Large Rectangular Indicator
- 1.40" Wide X 1.5 Long
- Bright Yellow (other colors available)
- Dual Magnetic Coupling

Wide Flag[®]

- Easy to read 1.40"
 Wide-Flag (Visible from 200+ ft.)
- Patented solid one piece ceramic magnetic flag
- 180 degree rotation
- Temperatures from -350°F to 1100°F
- High contrast Yellow (liquid) and Black (vapor)
- Other color combinations available

Available Enclosures: Anodized Aluminum or 316 Stainless Steel

Scales

- Scale can be customized to any increments (ft./in., gallons, percent, metric, etc.)
- All scales are photo etched into Stainless Steel
 No rusting, fading or stickers falling off
- Large, easy to read markings that allow measurement to be taken from a safe distance

Scales Available In:

- Feet/Inch Standard
- Metric
- % Scale
- 10^{ths} Scale
- Wide Acrylic Scale
- Gallon Scale
- +/- Scale
- Inch only Scale



Process Level Technology, Ltd.

POINT LEVEL SWITCHES



MGS-200EX & MGS-200EX/2

Туре	Electrical
Volts	150 VAC / VDC
Current	1.0 AMPS
Power	25 Watts
Contacts	SPDT or DPDT
Deadband	½ inch
MAWT	-40°F to +800°F
Enclosure	NEMA 4X
Connection	³ 4" FNPT

MGS-500EX & MGS-500EX/2

Туре	Electrical
Volts	500 VAC/VDC
Current	3.0 AMPS
Power	100 Watts
Contacts	SPDT or DPDT
Deadband	½ inch
MAWT	-40°F to +600°F
Enclosure	NEMA 4X
Connection	¾" FNPT

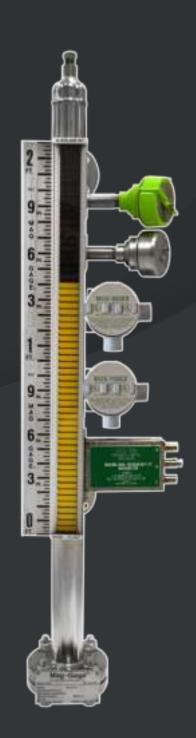


MGS-700EX & MGS-700EX/2

Туре	Electrical	
Volts	125/250 VAC	
Current	10.0 Amps	
Power	2500 Watts	
Contacts	SPDT or DPDT	
Deadband	½ inch	
MAWT	-40°F to +600°F	
Enclosure	NEMA 4X	
Connection	¾" FNPT	

MGS-900EX & MGS-900EX/2

Туре	Electrical	
Volts	125/250 VAC	
Current	15.0 Amps	
Power	3750 Watts	
Contacts	SPDT or DPDT	
Deadband	½ inch	
MAWT	-40°F to +600°F	
Enclosure	NEMA 4X	
Connection	³ ⁄4" FNPT	



Electrical Area Classification: Class I, Division I, Groups B, C, D



Туре	Non-Bleed Pneumatic
Supply Pressure	VAC-200 PSIG
Deadband	½ inch
MAWT	0°F to 200°F
Enclosure	0°F to 200°F
Connection	¼" FNPT

MGS-100: NON-BLEED PNEUMATIC SWITCH



A SUPERIOR MAGNETIC CIRCUIT

When designing the magnetic circuit between the float and indicator there are many considerations other than just how strong the magnets are in the float. The Mag-Gage[®] level gages have undergone extensive testing to produce a rigid and high performance design. With a unique construction the indication performs under the most demanding conditions such as high/low temperatures, vibrations, even schedule 160 chambers. Our patented solid magnet Wide Flag[®] design not only provides highly visible indication but provides a powerful connection with the float. The reliability and repeatability of the Mag-Gage[®] float and indicator combination is unmatched.



Kynar Float



Titanium High Pressure Float

- All floats are engineered to the specific operating conditions of each application.
- Shell is constructed of stainless steel, titanium, hasteloy, monel, CPVC, PVDF (Kynar), or any other non-magnetic material.
- Magnetic circuit is made of a series of Alnico magnets to provide a light yet effective connection.
- We can handle the highest pressures in the industry with no oversized, pressurized or vented floats. Pressurized floats can be a safety concern and can leak over time.
- PLT uses solid engineering to conquer the demands of high pressures and low gravities.



High Pressure Interface Float with Field Adjustable Weight



Coated Float for Corrosive Process



Standard Stainless Steel Float



The Carbon Fiber Float® (Patented)

Standard Specifications

- Non-Magnetic Chamber material
- All Flanges, Fittings and Pipe meet ASME/ANSI Standards
- Fabricated/Welded to B31.1/B31.3 code

Scale

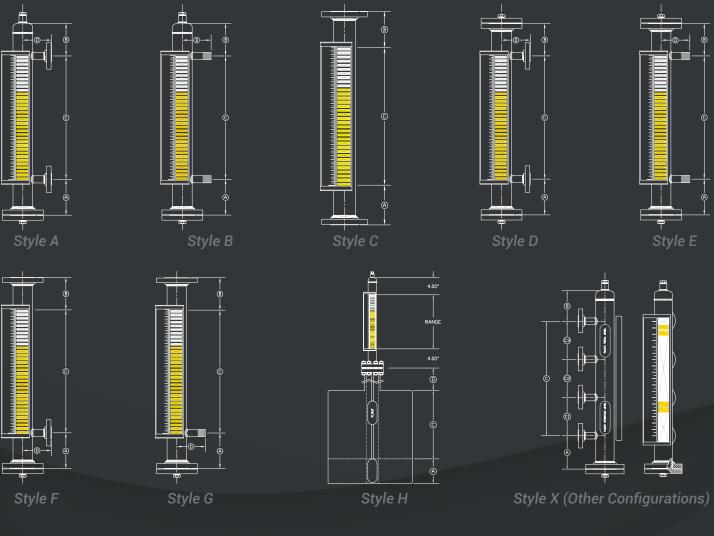
- Feet and Inches, ¼" divisions
- Photo etched and backfilled on stainless steel
- Metric, Percentage, or Volumetric available
- Optional 3¹/₂" Acrylic scales

Float Chamber

- 2" to 3" pipe W/RF Flanges Sch 40
- ½" FNPT vent and drain connections
- All flanges and fittings rated for process conditions
- Connections: ½" through 8" plus
- Pressure ratings vacuum to 5000 PSIG
- Temperature Rating: -350°F to +1100°F
- Specific gravity range: 0.28 and up
- Lengths from 4.0" to 50 feet

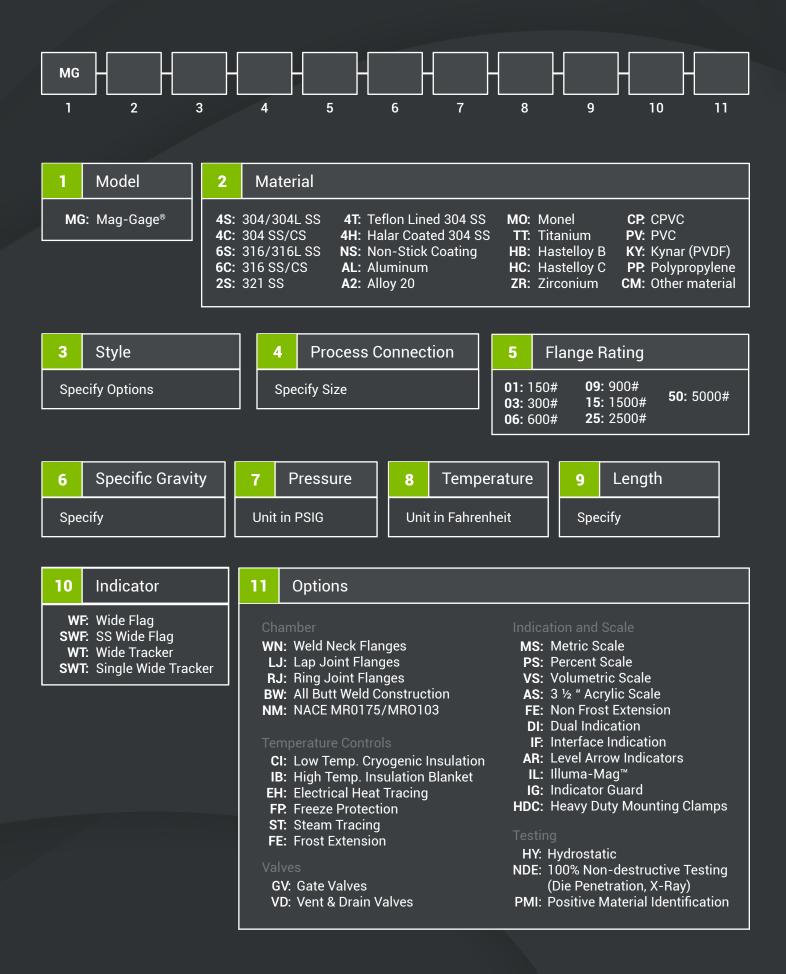
Indicator

- Bright colored
- Can be seen from 200 ft. or more
- 1.4" wide
- Hermetically Sealed



Chamber Styles

5



MAG-TRANS® PREMIER LEVEL TRANSMITTER

The Mag-Trans[®] 2523 Series Level Transmitter is the next generation in Magnetostrictive Level Sensing Technology. It contains a dual compartment enclosure attached to the piezomagnetic wave guide sensor. The output is reliable, repeatable, fast and accurate.

- Standardized Dual Compartment
- Stainless Steel Enclosure Option
- Two Wire: Loop Powered
 - 10-30 Vdc (24 Vdc Nominal)
- Graphic Display:
 - Inch-Metric-Percent
 - Scroll-Tile
- HART Protocol
- PACTware
- Local Programming
- Repeatable
- Reliable
- Variable Range
- Process Temperatures: -50°F to +800°F
- Class 1, DIV 1, GRP B, C, D

Specifications

Accuracy	+/- 0.015	Input	10-30 Vdc (24 Vdc
Repeatability	.001% Full Span	Output	4-20mA, HART
Linearity	.020% Full Span	Software	HART/PACTware
Refresh Rate	25x per second	Display	LCD-Graphic
Damping	1.0-25.0 Seconds	Process Temperature	800°F
Electrical Classfication	Class 1, Div 1, Grp B, C, D	Ambient Temperature	-25°F to 175°F



FIELDCOMM GROUP Connecting the World of Process Automation







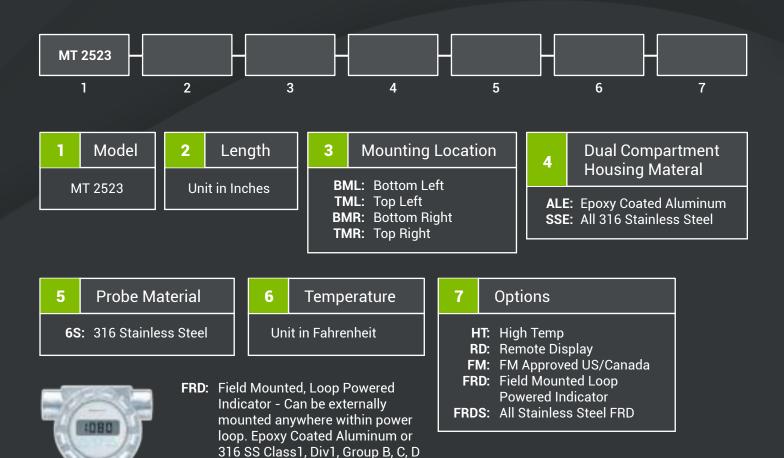
3-



Nominal)

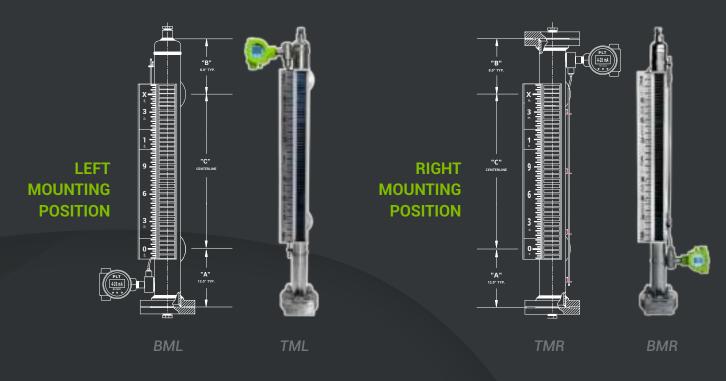


MAG-TRANS® ORDERING GUIDE

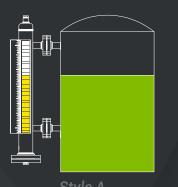


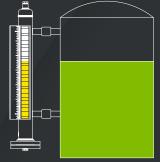
FRDS: All 316 Stainless Steel

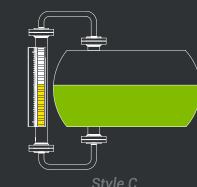


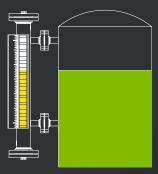


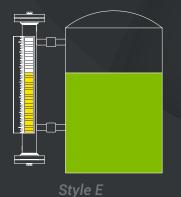
GENERAL INSTALLATIONS

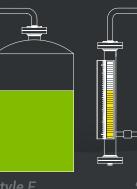




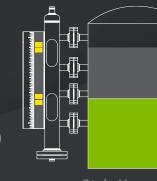












Other Products







Seal Pot





Applications

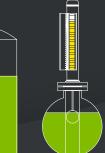
- Acetic Acid
- Ammonia
- Asphalt Settler
- Benzene
- Blow case
- **Boiler Steam Drum**
- Butane
- Caustics
- **Cooling Towers**
- **Deionized Water**
- Dow Therm
- **Drip Pot**
- Feedwater Heaters
- Flare Drums
- Freon
- Glycol
- Hydraulic Oil
- Hydrazine

- Hydrochloric Acid
- Hydrofluoric Acid
- Hydrogen Sulfide
- Interface (i.e. oil/water)
- Jet Fuel

- LPG
- Liquid Carbon Dioxide
- Liquid Ethylene
- Molten Sulfur
- Phosgene
- Propylene
- Propane
- Seal Oil Pots
- Slop Oil
- Sour Oil
- Sump Tank
- Underground Storage
- and more...







OPTIONS AND CUSTOMIZATIONS



SANITARY MAG-GAGE® Tri-colored flags



DUAL CHAMBER Options: MAG-TRANS[®], Guided Wave Radar



PLASTICS Options: CPVC, KYNAR, Others



HIGH TEMPERATURE INSULATION







INTEGRAL SIGHTGLASS

mag-gage.com

Process Level Technology, Ltd.

INQUIRIES

Upon product inquiry, a thorough analysis of the customer's application and product specifications is performed. Promptly after the initial inquiry, PLT issues a quotation in complete compliance with the application/specifications previously submitted.

DELIVERABLES

After purchase date, a standard shipping term between 2 to 4 weeks will be issued with all standard orders. Requests for a faster delivery, or immediate (24 hour) delivery can be accommodated. Any delivery requirements are to be given with initial inquiry in order to ensure on time delivery.



Process Level Technology, Ltd. MAG-GAGE®

> 888 Clear Creek Ave. League City, TX 77573 Phone 281 332 6241 Fax 281 332 0232 www.mag-gage.com

