

MAG-TRANS®

PREMIER LEVEL TRANSMITTER

- » 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
- » Choice of Material:
 - » Alloy
 - » Plastic
- » Process Temperatures: -50°F to +800°F
- » Process Pressures: Vacuum to 2000 PSIG
- » Class 1, DIV 1, GRP B, C, D



ISO 9001 Certified
Certificate Number: 1410004

THE MAG-TRANS® 2523 SERIES LEVEL TRANSMITTER

DESCRIPTION

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.

MOUNTING CONFIGURATION

MT2523: Non-Invasive MAG-TRANS® Transmitter attached directly to the MAG-GAGE®/Byass Chamber, with a variety of mounting options.

IT2523: Direct insertion into Tank/Vessel, or Bypass Chamber.

STANDARD FEATURES

- » Dual Compartment Enclosure
- » Epoxy Coated: Copper Free Aluminum, optional ALL-316SS
- » Two Wire, Loop Powered 10-30 Vdc (24 Vdc Nominal)
- » Graphic Display: Inch, Metric, Percent, Scroll or Tile
- » HART-Protocol Field Communication
- » Local Programming Quick and Easy Setup
- » Top, Bottom, Left, or Right Mounting positions with optional Remote mounting



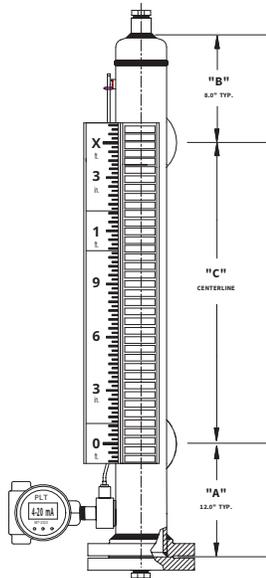
SPECIFICATIONS

Accuracy	+/- 0.015	Input	10-30 Vdc (24 Vdc Nominal)
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 Pressure	2000 PSIG
Electrical Classification	Class 1, Div 1, Grp B, C, D	Process Temperature	800°F
		Ambient Temperature	-25°F to 175°F



INSTALLATION OPTIONS

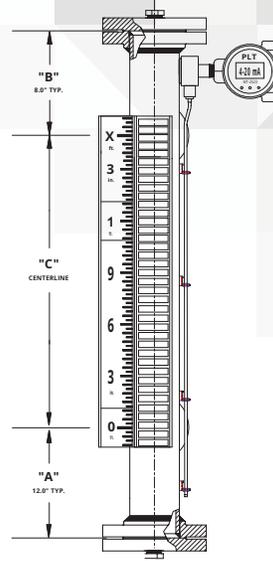
EXTERNAL Non-Invasive



BML



TML



TMR

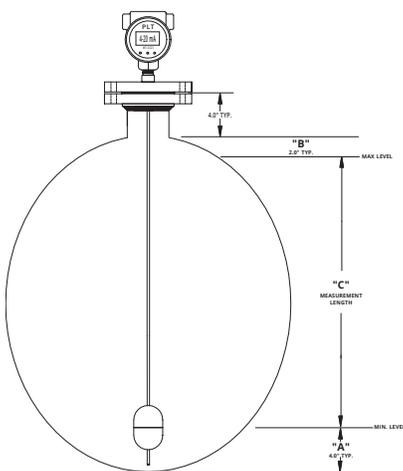


BMR

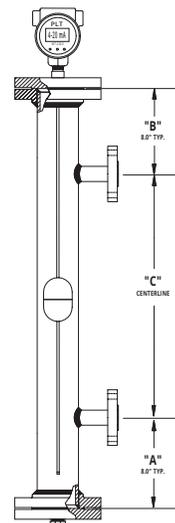
Left Mounting Position

Right Mounting Position

INTERNAL Direct Insertion



Tank/Vessel



Bypass Chamber (Internal)

MT2523 EXTERNAL MOUNTING NON-INVASIVE MAG-TRANS® / MAG-GAGE® ORDERING GUIDE

Order Information Example



1 Model	2 Length	3 Mounting Location	4 Dual Compartment Housing Material
MT2523	0" to 360"	BML: Bottom Left TML: Top Left BMR: Bottom Right TMR: Top Right	ALE: Epoxy Coated Aluminum SSE: All 316 Stainless Steel

5 Probe Material	6 Process Temperature	7 Options
6S: 316 Stainless Steel	-50°F to 800°F	HT: High Temp RD: Remote Display FM: FM Approved FRD: Field Mounted Loop Powered Indicator FRDS: All Stainless Steel FRD



FRD: Field Mounted, Loop Powered Indicator – Can be externally mounted anywhere within power loop. Epoxy Coated Aluminum or 316 SS Class1, Div1, Group B, C, D

All 316 Stainless Steel

FRDS:



IT2523 INTERNAL MOUNTING MAG-TRANS® IN-TANK/BYPASS CHAMBER ORDERING GUIDE

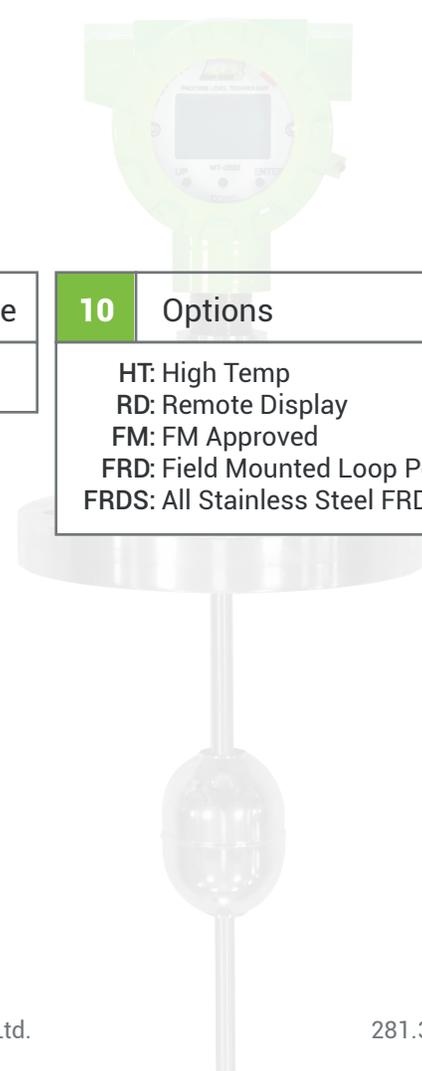
Order Information Example

IT2523	100"	TM	ALE	6S	2.0/150	1.0	150	200	FM
1	2	3	4	5	6	7	8	9	10

1 Model	2 Length	3 Mounting Location	4 Dual Compartment Housing Material
IT2523	0" to 240"	TM: Top Mount	ALE: Epoxy Coated Aluminum SSE: ALL 316 Stainless Steel

5 Probe Material	6 Instrument Connection	7 Specific Gravity
6S: 316 Stainless Steel 4S: 304 Stainless Steel A2: Alloy 20 HC: Hastelloy MO: Monel AL: Aluminum TT: Titanium CP: CPVC KY: PVDF/KYNAR PM: Specify Other	Ex: 2.0/150 RF Specify Size / Rating	0.30 to 2.0

8 Process Pressure	9 Process Temperature	10 Options
VAC to 2000 PSIG	-50°F to 300°F	HT: High Temp RD: Remote Display FM: FM Approved FRD: Field Mounted Loop Powered Indicator FRDS: All Stainless Steel FRD



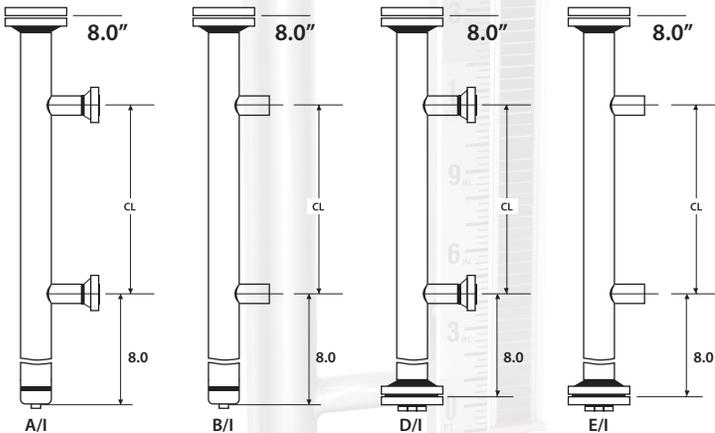
ORDERING GUIDE FOR BYPASS CHAMBERS

Bypass Order Information Example

BP	6S	A/I	3"	150#	WN	2"/40	100	75	48"	X
1	2	3	4	5	6	7	8	9	10	11

1 Model BP: Bypass Chamber	2 Materials 6S: 316 S.S. 4S: 304 S.S. HC: Hastelloy M4: Monel 400 A20: Alloy 20 CP: CPVC PVDF: KYNAR CM: Other	3 Mounting Style Specify Style	4 Side Connections ½" to 4"
5 Flange Rating 150# to 2500#	6 Process Connection LJ: Lap Joint with Stub End FC: FNPT SO: Raised Face Slip-On Flanges MC: MNPT WN: Raised Face Weld Neck Flanges SW: Socket-Weld RJ: Ring Joint Flanges		
7 Pipe Size & Schedule Size: 2" to 4" Sched: 10, 40, 80, 160	8 Pressure Unit in PSIG	9 Temperature Unit in °F	10 CL Dimension Measuring Length
11 Options ST: Steam Tracing HT: Heat Tracing IB: Insulation Blanket CI: Cryogenic Insulation N: Nace CRN: Canadian Registration X: Special Options (Specify)			

Customer Specified Mounting Styles



Standards

- All flanges, fittings and Pipe meet ASME/ANSI standards
- Fabricated/Welded to B31.1/B31.3 Code



MAG-TRANS® TOTAL LEVEL CONTROL

Why have excessive connections on your vessel for multiple methods of level control?

With the Mag-Gage in combination of the Mag-Trans and MGS-200EX switches, you can have:

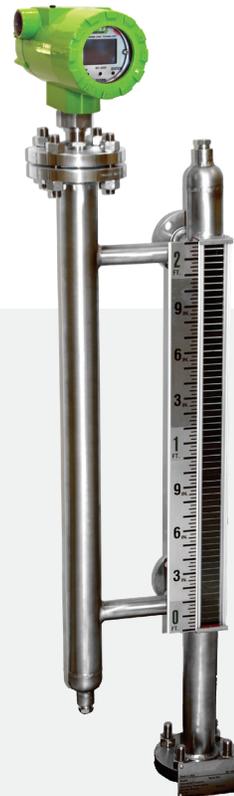
- An easy to read and repeatable physical indication
- An accurate and user friendly 4-20mA transmitter
- Point level switches for alarms or pumps

All off of just TWO process connections!



MAG-GAGE®
with **MAG-TRANS®**

Dual Chamber
with **MAG-TRANS®**



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.

DELIVERIES

After purchase date, a standard shipping term between 2-4 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.



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MAG-GAGE®

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