

Your Ideal Level Solution

+ 1100 Series Magnetic Level Indicator Magnetostriuctive Level Transmitter

The **1100 Series Magnetic Level Indicator (MLI)** is a proven solution for streamlining the measurement of liquid levels. Not only does the 1100 Series give exceptional visual indication, it also eliminates the need for armored sight glass instruments – simplifying piping systems and allowing for multiple measurements without unnecessary complications to the piping.

The SOR® tried-and-true chamber design was developed through years of experience and innovation and is proven by the countless chambers installed around the world that have been providing reliable service for more than four decades.

When your application requires monitoring as well as visual indication, SOR can provide a magnetostriuctive level transmitter to meet your needs. Units ship out fully assembled, calibrated and ready to be installed in your application. HART® and Modbus are available along with multiple mounting orientations and agency approvals.

Also remember to order the SOR patented vista™ indicator for your magnetic level indicator which provides a 200° viewing angle, the widest in the industry, and a 250 feet (76 meters) viewing distance.

The 1100 Series is suitable for most industrial and commercial applications.

Oil and Gas

- Offshore production
- Compressor packages
- Oil and water interface
- High and low pressure separators
- Gas condensate
- Glycol

Power Generation

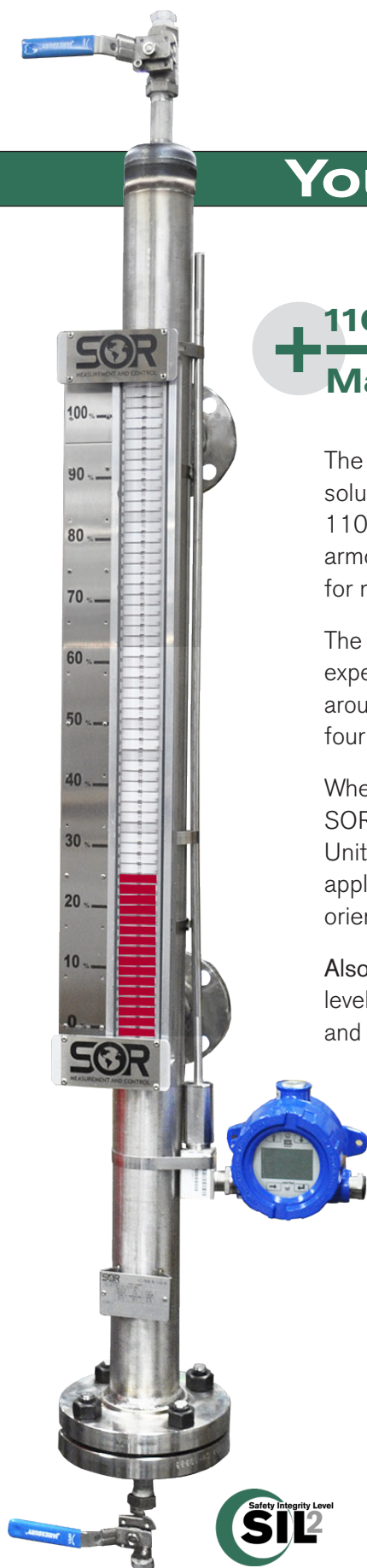
- Boilers
- Feed water heaters
- Sight glass replacement

Chemical and Petrochemical

- Refined products
- Heat transfer fluids
- Solvents
- Acids and caustics

Other

- Pulp and paper
- Food and beverage
- Pharmaceutical
- Industrial chemicals
- Waste water



Product Specifications - Magnetostrictive Transmitter

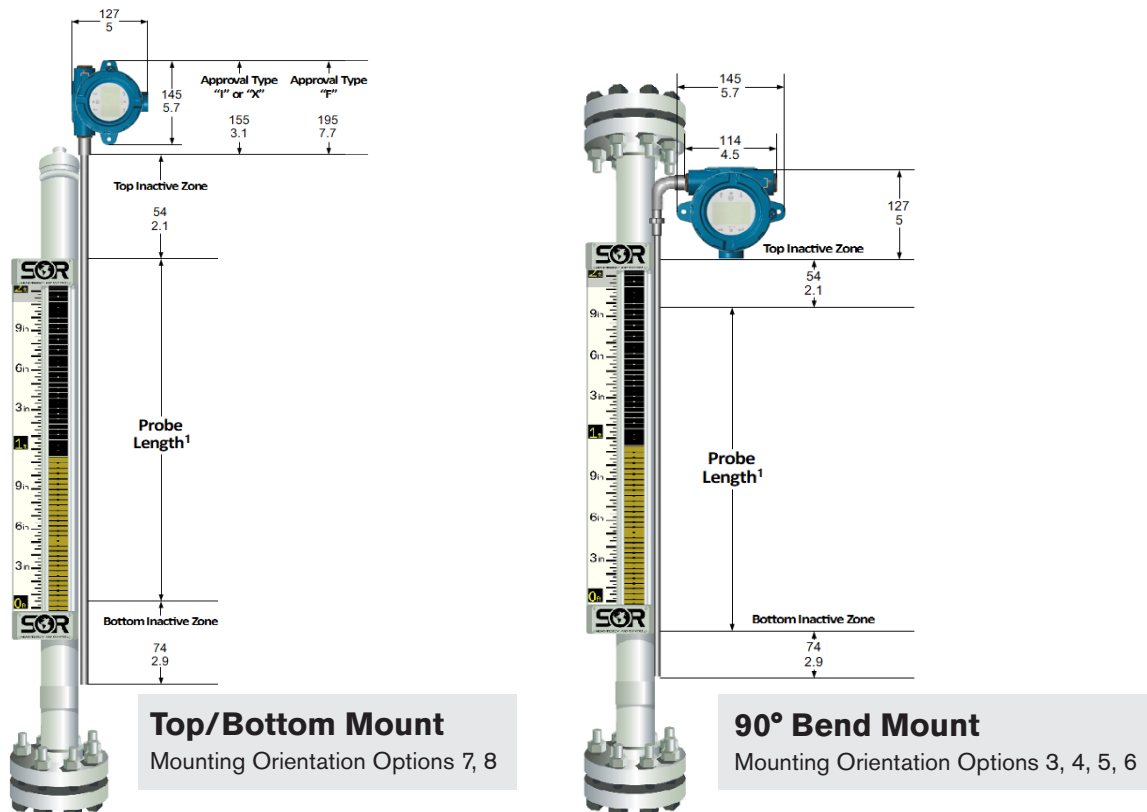
for use with SOR 1100 Series MLI

Continuous Output	Accuracy	± 1 mm (0.039")
	Repeatability	0.001% F.S. or 0.381 mm (0.015") whichever is greater
	Output	4-20 mA
		HART® with SIL2
Temperature Range*	Electronics	-40 to 160°F (-40 to 71°C)
	Probe	-40 to 257°F (-40 to 125°C)
	Process	-350°F up to 800°F (-212°C up to 426°C)
Fail Safe	Modbus	High: Full scale
	4-20 mA, HART®	Low: 3.5 mA (default) High: 22.8 mA
Display/Keypad	4 button keypad with 2 line LCD display	
Supply Voltage	10.5-28 VDC	
Circuit Protection	Reverse Polarity and EMC (EMI/RFI) protected	
Probe Material	316L Stainless Steel	
Conduit Connection	3/4" NPT (Standard)	
	M20 (ATEX or IEC)	
Enclosure Rating	NEMA 4X, IP65	
Warranty	2 years	
Agency Rating	Class I, Division 1, Groups A-D, IS	

* Extreme temperature options may require additional accessories. Consult factory for more information.

Dimensions - Magnetostrictive Transmitter

for use with SOR 1100 Series MLI



¹ Probe length will be desired measuring range plus 4" for mounting

for use with SOR 1100 Series MLI

configure and order a product for your application. You must select a designator for each component.

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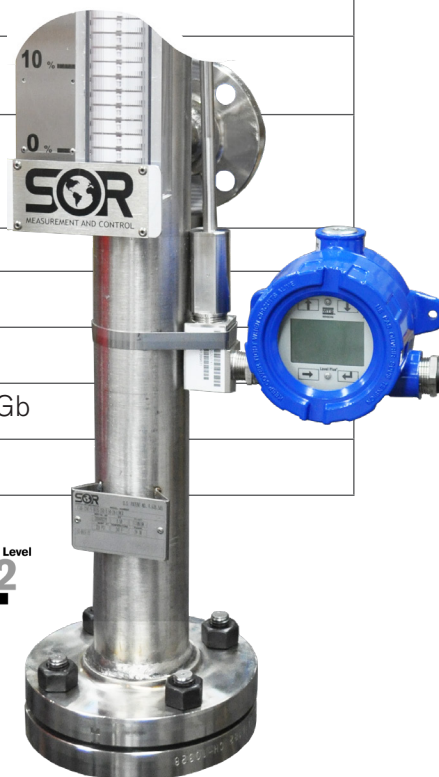
**Example
Model No.**

** Magnetostrictive transmitter is manufactured by TEMPOSONICS. SOR is an TEMPOSONICS VAR partner for MLI applications.

Agency Approvals - Magnetostrictive Transmitter

for use with SOR 1100 Series MLI

Approved	Safety Method	Approval
CEC (FMC)	Intrinsically Safe	Class I, Division 1, Groups A-D T4
		Class I, Zone 0/1, Ex ia IIC T4
		Ta = -50 to 71°C; IP65
	Explosion Proof	Class I, Division 1, Groups B-D T6...T3
		Ex db IIB+H2 T6...T3 Ga/Gb
		Ta = -40 to 71°C; IP65
ATEX	Intrinsically Safe	⊕ II 1/2 G Ex ia IIC T4
		Ta = -50 to 71°C; IP65
	Flameproof	⊕ II 1/2 G Ex db IIB+H2 T6...T3 Ga/Gb
		Ta = -40 to 71°C; IP65
NEC (FM)	Intrinsically Safe	Class I, Division 1, Groups A-D T4
		Class I, Zone 0/1, AEx ia IIC T4
		Ta = -50 to 71°C; IP65
	Explosion Proof	Class I, Division 1, Groups A-D T6...T3
		Class I, Zone 0/1, AEx db IIB+H2 T6...T3 Ga/Gb
		Ta = -40 to 71°C; IP65
IEC INMETRO NEPSI CCOE CML/TIIS	Intrinsically Safe	Ex ia IIC T4 Ga/Gb
		Ta = -50 to 71°C; IP65
	Flameproof	Ex db IIB+H2 T6...T3 Ga/Gb
		Ta = -40 to 71°C; IP65



MEASUREMENT AND CONTROL

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