

HU-TM LEVEL • DATASHEET•



HU-TM

Non-intrusive Ultrasonic Level Gauge

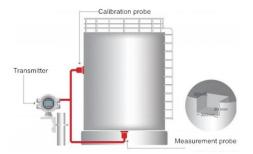
Profile

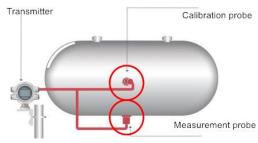


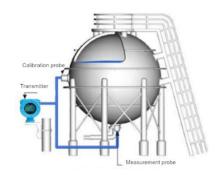
HU-TM non-intrusive level gauge is an instrument that uses sonar distance measurement principles to measure the liquid level inside a container from the outside (bottom). This product achieves completely isolated measurement.

The level gauge breaks away from the traditional method of contacting the container by opening it, realizing true non-contact measurement of the liquid level inside a sealed container. The sonar sensor (probe) is installed directly below the container's outer wall (bottom), eliminating the need to drill holes in the container. It is easy to install and can be done without stopping production. It provides precise measurement of various toxic substances, strong acids, strong bases, and pure liquids inside high-temperature, high-pressure sealed containers

Installation







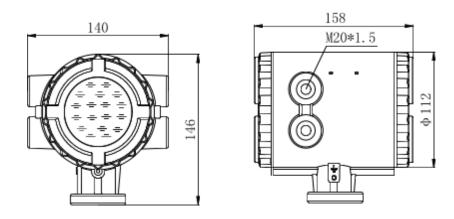


Specifications

Non-intrusive level gauge	Two-wire system Four-wire system					
Range	5m, 10m, 20m, 30m, 40m, 50m					
Display resolution	1mm					
Short -term repeatability	1mm					
Measurement error	±1%FS, ±2%FS, ±5%FS					
Temperature measurement range	-45℃ ~ +100℃					
Temperature measurement accuracy	1℃					
Migration amount	±9.9 m					
Signal output	4 ~ 20mA (Max load 500 Ω), HART, Modbus					
Power supply	DC24V(22V~36V)	DC 24V(18V~30V)				
Power	1W	10W				
Communication	RS-485, Infrared, HART, Modbus					
Relay alarm output	DC 30V 5A					
Host operating ambient temperature	-20℃ ~ +70℃(below -20℃ or above 70℃ need to be customized)					
On-site displayed ambient temperature	-20℃ ~+70℃					
Probe operating ambient temperature	-20℃ ~ +70℃(below -20℃ or above 70℃ need to be customized)					
Operating ambient humidity	(0% to 95%) RH					
Explosion-proof	Ex db II C T6 Gb					
Enclosure Protection	IP67					
Liquid level display	128×64 LCD display					
Blind area	For ideal working condition, the blind area is 3cm, the specific value is determined by the complexity of the working condition					
Electrical interface	M20×1.5 (F), 1/2 NPT (F)					
Probe to host cable length	5m, 10m, 20m, 30m					
Host weight	2KG					
Host dimensions	Length 160mm x width 140mm x h	eight 150mm				

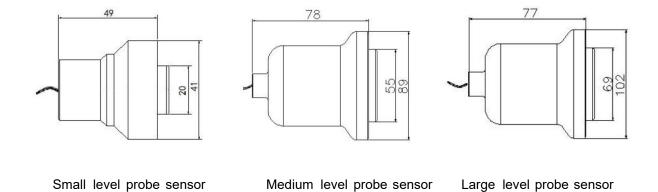


Host Outline and Dimensions



Host outline and dimension(unit, mm)

Probe Outline and Dimensions





How To Order

HU-TM Selection Type	02	Т	Н	F	N	D	S	
Range	01= 0~5m							
Signal type	T=Two-wired F=Four-wired X=by	customized						
Tank type		al storage tar ical horizonta						
Tank material	F=Ferromagnetic N=Non-ferror	nagnetic						
Temperature range	N=Normal temperature (-20'℃~70℃) H=High temperature (70℃~200℃) L=Low temperature (-120℃~70℃) E=Higher than 200℃ or lower than -120℃ needs to be customized							
Calibration	D=Diameter calibration T=Tempo	erature calibra	ation	N=No ca	llibration			
Output	S=4-20mA H=Hart protocol R=Relay alarm X=Other output n		odbus pro to be cus					
Cable	O=Ordinary cable A=Armored cable	e X=Other o	ables by	customize	d			

Applications













4

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