

WIKAL® Submersible Liquid Level Transmitters

Features

- Standard ranges available from stock
- Rated IP68 for permanent submersion
- 4-20 mA two-wire output signal
- Vented polyurethane cable withstands 220 pounds of strain
- Custom cable lengths available on LS-10. LH-10 comes with integral 40' cable.

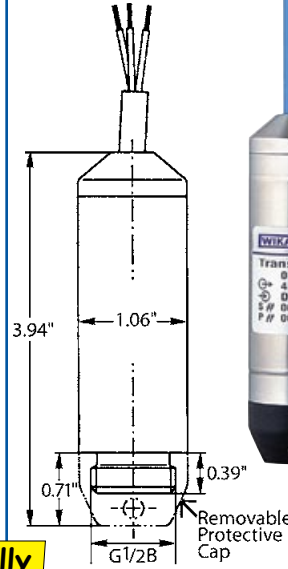
WIKA LS-10 liquid level transmitter is designed for economical and reliable performance in a variety of level measurement applications. The LS-10 provides a 4-20 mA signal output and an accuracy of 0.25% span.

The high performance LH-10 provides 0.125% accuracy. The LH-10 includes a dual cable entry design that prevents ingress of moisture into the electronics, even if the cable is damaged.

Both models feature watertight vented cable that can withstand more than 220 pounds of strain. This means the transmitters can be supported without the need for additional cabling.

Both the LS-10 and LH-10 can be ordered with the LevelGuard™ (below) for protection in difficult environments.

Dimensions



Need an FM approved intrinsically safe submersible transmitter? Call Lesman for the WIKA IL-10

WIKA LevelGuard™ Anti-Clog Attachment for Submersible Liquid Level Transmitters

Features

- For lift stations, wet wells, and other level applications
- All 316 stainless steel construction for durability
- 2" diameter diaphragm provides excellent measurement sensitivity
- Birdcage-style enclosure protects diaphragm from physical damage and turbulence
- Added weight prevents unwanted transmitter movement

The WIKA LevelGuard attachment is designed for difficult level sensing applications where sludge, slurry, or turbulence may be present.

The large 2" diaphragm provides excellent sensitivity and performance, even when used to monitor extremely low liquid levels, or when the assembly is buried in a layer of sludge or slurry. The cable supplied with the WIKA LS-10 submersible transmitter is designed to withstand more than 200 pounds of strain, so no additional support or conduit connections are required.



Great for dirty media applications and turbulent processes!

Model Selection Guide

Pressure Range	Maximum Pressure*	Burst** Pressure	Catalog Number	Price Each	
LH-10: 0.125% Accuracy, 316 SS, Polyurethane, Polyamid wetted parts, G1/2B pressure connection, 4-20 mA output. Integral 40' vented polyurethane cable.					
0-50"WC	14 PSI	29 PSI	9699703	\$556.13	
0-100"WC	30 PSI	35 PSI	9699711	556.13	
0-150"WC	30 PSI	35 PSI	9699729	556.13	
0-250"WC	60 PSI	70 PSI	9699737	556.13	
0-400"WC	72 PSI	87 PSI	9699745	556.13	
0-5 PSI	30 PSI	35 PSI	8371846	556.13	
0-10 PSI	60 PSI	70 PSI	9699754	556.13	
0-15 PSI	72 PSI	87 PSI	9736225	556.13	
0-25 PSI	145 PSI	170 PSI	9699762	556.13	
0-50 PSI	240 PSI	290 PSI	9699770	556.13	
0-100 PSI	500 PSI	600 PSI	9699788	556.13	
LS-10: 0.25% Accuracy, 316 SS, Polyurethane, Polyamid wetted parts, G1/2B pressure connection, 4-20 mA output. Select cable length below and append to catalog number.					
0-100"WC	30 PSI	35 PSI	4262761	\$392.10	
0-150"WC	30 PSI	35 PSI	4262779	392.10	
0-250"WC	60 PSI	70 PSI	4262787	392.10	
0-5 PSI	30 PSI	35 PSI	4262809	392.10	
0-10 PSI	60 PSI	70 PSI	4262817	392.10	
0-15 PSI	72 PSI	87 PSI	4262825	392.10	
0-25 PSI	145 PSI	170 PSI	4262833	392.10	
0-30 PSI	145 PSI	170 PSI	4262841	392.10	
0-50 PSI	240 PSI	290 PSI	4262850	392.10	
0-100 PSI	500 PSI	600 PSI	4262868	392.10	
			5'	4347868	0.00
			10'	4347876	14.05
			15'	4347885	28.09
			20'	4347893	42.14
			25'	4347906	56.18
			30'	4347915	70.22
			40'	4347931	98.31
			50'	4347957	126.40
			60'	4347974	154.49
			70'	4347990	182.57
			75'	4348006	196.61
			100'	4348040	266.84
Vented Polyurethane Cable (Append to Transmitter Model Number e.g., 4262850/4360903)					
Accessories					
Stainless Steel LevelGuard™			50077091	443.78	
Desiccant Drying Cartridge			9836700	15.73	
Vent Tube Filter			7193131	11.24	
Cable Clamp			2074257	23.59	
Additional Weight			1524399	73.03	
Cable Junction Box			2459686	84.26	
1/2" NPTF Cable Conduit Adapter			2289718	28.09	

Ordering an LS-10? Don't forget to order a desiccant drying cartridge. Helps prevent moisture buildup inside the transmitter's vent tube.

Notes

- * Maximum pressure, causing no permanent changes in specifications but may lead to adjustable zero/span shifts.
- ** Burst pressure, leading to destruction of transmitter.

Need a cable longer than 100 feet? Call for pricing and availability.

Pressure Transmitters

Anderson Greenwood Instrument Valves

Level Measurement Instruments

Flow Measurement Instruments

Solids Flow and Motion

Actuator Motors and Pneumatic Drives

Submersible Pressure Transmitter for Liquid Level

Features

- Transmitter for hydrostatic depth measurement
- Piezoresistive flush-mounted sensor
- Stainless steel sensor and enclosure
- 4-20 mA two-wire output
- 0.3% accuracy
- Easy installation with junction box or cable hanger

Specifications

Measuring Range	Maximum Working Pressure
0–2 m (0–6 ft) H ₂ O	1.4 bar (20.3 psi) 14 m (42 ft) H ₂ O
0–4 m (0–12 ft) H ₂ O	1.4 bar (20.3 psi) 14 m (42 ft) H ₂ O
0–6 m (0–18 ft) H ₂ O	3.0 bar (43.5 psi) 30 m (90 ft) H ₂ O
0–10 m (0–30 ft) H ₂ O	3.0 bar (43.5 psi) 30 m (90 ft) H ₂ O
0–20 m (0–60 ft) H ₂ O	6.0 bar (87.0 psi) 60 m (180 ft) H ₂ O

Zero and Span: Influence of Ambient Temperature: 1–6 m (3–18 ft) H₂O: 0.45%/10 K full scale; ≥6 m (18 ft) H₂O: 0.3%/10 K full scale; Long-Term Stability: 1–6 m (3–18 ft) H₂O: 0.25% full scale; ≥6 m (18 ft) H₂O: 0.2% full-scale

Ambient Operating Temperature: 14°–176 °F (-10°–80 °C)

Material: Sensor/Casing: Stainless steel, mat. No. 1.4571/316 Ti; Gasket: Viton; Connecting Cable: PE/HFFR sheath (non-halogen)

Degree of Protection to DIN EN: IP68

Electrical Connection: Cable with 2 conductors with screen and vent pipe, strength cord (max. 300 N (67.44 lbf))

Power Supply: Terminal voltage on pressure transmitter: 10–36 V DC

Explosion Protection: Intrinsic safety "i" TÜV 03 ATEX 2004X; Identification: Ex II 1 G EEx ia IIC T4

Junction Box: For connecting the transmitter cable; Enclosure: Polycarbonate, with vent pipe for atmospheric pressure and screw for cable strength cord; Electrical Connection: 2x 3-way (28–18 AWG); Cable Entry: 2x M20x1.5; Degree of protection to DIN EN 60529: IP54

Cable Hanger: For mounting the transmitter; Galvanized steel, polyamid



SITRANS P MPS pressure transmitters have a flush-mounted piezoresistive sensor with stainless steel diaphragm, for measuring liquid levels in wells, tanks, channels, and dams.

On one side of the sensor, the diaphragm is exposed to the hydrostatic pressure, which is proportional to the submersion depth. This pressure is compared with atmospheric pressure. Pressure compensation is carried out using the vent pipe in the connection cable.

The liquid column's hydrostatic pressure acts on the diaphragm, and transmits the pressure to the sensor's piezoresistive bridge.

Ordering Instructions

Select one option from each table following. A complete catalog number looks like this: 7MF1570 - _____

Model Selection Guide

Please submit orders to: Siemens Industry Inc, c/o Lesman Instrument Company.

Description	Catalog Number	Price
SITRANS P MPS Submersible Transmitter for Level	7MF1570 -	\$0.00
Range/ Cable Length	0–2m H ₂ O, 10m Cable	1CA01 449.00
	0–4m H ₂ O, 10m Cable	1DA01 449.00
	0–6m H ₂ O, 25m Cable	1EA01 554.00
	0–10m H ₂ O, 25m Cable	1FA01 554.00
	0–20m H ₂ O, 25m Cable	1GA01 554.00
	0–6 Ft H ₂ O, 32 Ft Cable	1KA01 449.00
	0–12 Ft H ₂ O, 32 Ft Cable	1LA01 449.00
	0–18 Ft H ₂ O, 82 Ft Cable	1MA01 554.00
	0–30 Ft H ₂ O, 82 Ft Cable	1NA01 554.00
Accessories	Plastic Junction Box, IP54	7MF1570-8AA 57.00
	Carbon Steel Cable Hanger	7MF1570-8AB 15.00

Download the SITRANS P MPS operation manual from www.Lesman.com

Intrinsically Safe Loop-Powered Submersible Level Transmitter

- 2-5/8" Teflon-coated Buna-N diaphragm
- FM/CSA Intrinsically safe, Class I, Div. 1, Group A-D rated with approved barrier
- 4-20 mA output, 0.25% full scale accuracy, 0.2% full scale/year long-term stability



Specifications

Max Overpressure Range: 1.5 PSI 8X full scale; 5.0 PSI 4X full scale; 15 PSI & 30 PSI 2X full scale

Temperature Range: -40° to 185°F (Liquid must remain fluid)

Materials: Housing: 316 Cast Stainless Steel, Teflon® coated; Sensing head: Two layer diaphragm with Teflon and Buna-N; Exposed materials: 316 cast stainless steel, Teflon-coated, PVC, synthetic rubber and Urethane; Cable: Heavy-duty Polyethylene, vent tube, shielded 18 AWG conductors

Atmosphere Ventilation: No-maintenance sealed breather system

Power Required: 9-30 VDC (750Ω load @ 24VDC)

Call for pressure ranges, cable lengths, and accessories. Prices start at \$1000.00.

Holds up in the most severe wastewater applications

Learn more about level technology online at www.Lesman.com

No time for on-site training? Check out our online training center! View past training sessions and how-to videos at www.Lesman.com/train