Model LT1000-13/16/19/22 series

OEM Submersible Level Transmitter Stainless steel sensor Probe diameter Ø13/Ø16/Ø19/Ø22mm



The probe LT1000 with stainless steel sensor has been especially designed for the continuous level measurement at confined space conditions. The LT1000 submersible level transmitter has been designed for level measurement in contact. With the medium in harsh operating conditions. It offers an accuracy of 0.5 %FS and with an ingress protection of IP 68, is suitable for permanent level measurements up to 300 m water column.

Features

- ☐ Measuring ranges from 5mH₂O to 300 mH₂O
- □ IP68, Submersible level measurement
- Built-in PT100 temperature sensor (optional) for simultaneous level and temperature
 Measurement
- Calibrated and temperature compensated
- Stainless steel pressure sensor
- □ Output 4...20mA, DC1...5V, DC 0.5...4.5V, MODBUS RTU

Application

- ☐ Drinking water systems
- ☐ Ground water monitoring
- Domestic water tanks
- Rain spillway basin
- Well monitoring



Technical data

Measuring range

Nominal pressure [mH ₂ O]	5	8	10	20	25	30	40	50	60	80	100	150	200	250	280	300
Overpressure [mH₂O]	10	12	15	25	30	35	45	60	70	90	110	170	220	270	300	320

Performance

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Accuracy*	0.5 %FS@25°C	*Linearity (best straight line) + Hysteresis + Repeatability
Operating Temperature	-10 to 50°C	
Compensated Temperature Range	-10 to 50°C	
Temp. coeff - Zero	±0.75[Typ.], ±1.5[Max.]	
Temp. coeff - Span	±0.75[Typ.], ±1.5[Max.]	
Vibration	20 g RMS(20 to 2000Hz)	
Shock	100 g(10ms)	
Cycles	10x10 ⁵	
Long Term Stability	0.2 %FS	

Electrical @25°C

Liettiitui @25 C				
Output signal / Supply	2-wire 420mA / V _S = 9 30VDC			
	2-wire HART+420mA / V_s = 12 30VDC			
	3-wire 15VDC / V _s = 9 30VDC			
	3-wire 0.54.5VDC / V _S = 9 30VDC			
	3-wire 010VDC / V _S = 15 30VDC			
	3-wire 0.54.5VDC / V _S = 5VDC			
	4-wire $12C / V_S = 3.35VDC$			
	4-wire MODBUS RTU / V _S = 930VDC			
Insulation Resistance	100 MΩ@100VDC			
EMC Test	IEC61000-6-2/IEC61000-6-3			
Reverse polarity protection	No damage – no function			

Physical Specifications

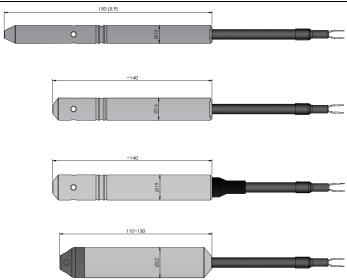
Housing	316 stainless steel			
Diaphragm	l6L stainless steel			
Protection cap	Stainless steel, POM-C			
Cable sheath	PUR, PE, PTFE			
Oil Filling	licone oil			
Protection	IP68			
Weight	~250g (without cable)			

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Dimensions All dimensions in mm(in)



Electrical connections

Cable outlet	420mA	15VDC	0.54.5VDC	RS485
	2-wire	3-wire	3-wire	4-wire
+Vcc	Red	Red	Red	Red
OUT/RS485A/SDA	Green	Yellow	Yellow	Yellow
GND	NA	Green	Green	Green
RS485 B/SCL				Blue

Ordering code

Model	Range	Туре	Output	Cable	Cable length
LT1000-13 Probe dia.= Ø13mm	01 5mH ₂ O	G Gauge	42 420mA	C1 PUR	XXX Cable length in
LT1000-16 Probe dia.= Ø16mm	02 8mH ₂ O	A Absolute	15 DC15V	C2 PE	
LT1000-19 Probe dia.= Ø19mm	03 10mH ₂ O		04 DC0.54.5V	C3 PTFE	
LT1000-22 Probe dia.= Ø22mm	04 20mH ₂ O		25 DC0.52.5V		
	05 25mH ₂ O		05 DC05V		
	06 30mH ₂ O		01 DC010V		
	07 40mH ₂ O		10 DC110V		
	08 50mH ₂ O		H2 420mA+HART		
	09 60mH ₂ O		IC I2C interface		
	10 80mH ₂ O		R4 MODBUS RTU		
	11 100mH ₂ O				
	12 150mH ₂ O				
	13 200mH ₂ O				
	14 250mH ₂ O				
	15 280mH ₂ O				
	16 300mH ₂ O				

Accuracy	Label
A1 0.1%FS	S Standard
A2 0.25%FS	N Neutral packing
A3 0.5%FS(Standard)	C Custom label

Accessory



Code A1: Cable strain relief clamp