## **Model LT1080 series**

Split Submersible Level Transmitter Śtainless steel sensor Mass production, automated calibration



The LT1080 submersible level transmitter has been designed for level measurement in contact With the medium in harsh operating conditions. It offers an accuracy of 0.25 %FS and with an ingress protection of IP 68, is suitable for permanent level measurements up to 200 m water column.

#### **Features**

- $f \square$  Measuring ranges from 1mH<sub>2</sub>O to 200 mH<sub>2</sub>O
- □ IP68, Submersible level measurement
- LCD display
- Accuracy: ±0.25%FSO(Typ.) П
- Calibrated and temperature compensated
- Stainless steel pressure sensor
- Output 4...20mA, HART, MODBUS RTU

#### Application

- □ Drinking water systems
- Ground water monitoring
- Domestic water tanks
- □ Rain spillway basin



CE

#### **Technical data**

Measuring range

Nominal pressure [mH₂O]	1	2	4	5	8	10	12	15	20	25	30	40	50	60	80	100	120	150	200
Overpressure [mH <sub>2</sub> O]	1.5	3	6	7	12	15	15	20	30	35	40	50	60	70	100	110	130	170	220

Performance

Accuracy*	0.25%FS@25°C(Typ.) 0.5%FS@25°C(Max.) *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 <sup>5</sup>
Long Term Stability	0.2 %FS

### Electrical @25°C

Output signal / Supply	2-wire 420mA / V <sub>s</sub> = 9 30VDC		
	2-wire HART+420mA / V <sub>s</sub> = 12 30VDC		
	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**

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Housing	316 stainless steel					
Diaphragm	116L stainless steel					
Protection cap	Stainless steel					
Cable sheath	PUR, PE, PTFE					
Oil Filling	Silicone oil					
Protection	IP68					
Weight	~250g (without cable)					

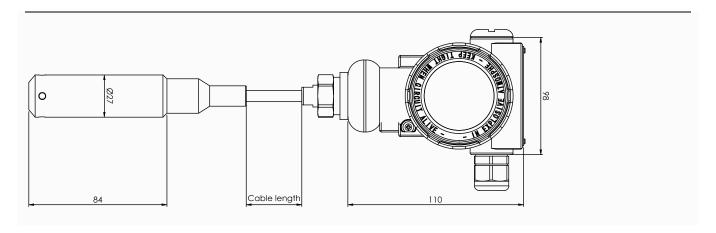


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## **Dimensions** (All dimensions in mm)



## Ordering code

Model	Range	Туре	Output	Cable	Cable length	Protection cap
LT1080	<b>01</b> 1mH <sub>2</sub> O	<b>G</b> Gauge	<b>42</b> 420mA	C1 PUR	XXX Cable length in m	<b>S</b> Stainless steel
	<b>02</b> 2mH <sub>2</sub> O		<b>H2</b> 420mA+HART	C2 PE		
	<b>03</b> 4mH <sub>2</sub> O		<b>R4</b> MODBUS RTU	C3 PTFE		
	<b>04</b> 5mH <sub>2</sub> O					
	<b>05</b> 8mH <sub>2</sub> O					
	<b>06</b> 10mH <sub>2</sub> O					
	<b>07</b> 12mH <sub>2</sub> O					
	<b>08</b> 15mH <sub>2</sub> O					
	<b>09</b> 20mH <sub>2</sub> O					
	<b>10</b> 25mH <sub>2</sub> O					
	<b>11</b> 30mH <sub>2</sub> O					
	<b>12</b> 40mH <sub>2</sub> O					
	<b>13</b> 50mH <sub>2</sub> O					
	<b>14</b> 60mH <sub>2</sub> O					
	<b>15</b> 80mH <sub>2</sub> O					
	<b>16</b> 100mH₂O					
	<b>17</b> 120mH <sub>2</sub> O					
	<b>18</b> 150mH2O					
	<b>19</b> 200mH2O					

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