

Model LT1080 series

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

Materontek
Sensing and Internet of Things

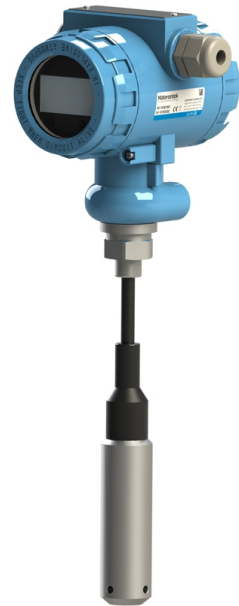
The LT1080 submersible level transmitter has been designed for level measurement in contact with the medium in harsh operating conditions. It offers an accuracy of 0.25 %FS and with an ingress protection of IP 68, is suitable for permanent level measurements up to 200 m water column.

Features

- ❑ Measuring ranges from 1 mH₂O to 200 mH₂O
- ❑ IP68, Submersible level measurement
- ❑ LCD display
- ❑ Accuracy: ±0.25%FSO(Typ.)
- ❑ 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



Technical data

Measuring range

Nominal pressure [mH ₂ O]	1	2	4	5	8	10	12	15	20	25	30	40	50	60	80	100	120	150	200
Overpressure [mH ₂ 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 ⁵	
Long Term Stability	0.2 %FS	

Electrical @25°C

Output signal / Supply	2-wire 4...20mA / V _S = 9... 30VDC 2-wire HART+4...20mA / V _S = 12... 30VDC 4-wire MODBUS RTU / V _S = 9...30VDC
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	316L stainless steel
Protection cap	Stainless steel
Cable sheath	PUR, PE, PTFE
Oil Filling	Silicone oil
Protection	IP68
Weight	~250g (without cable)

