

Model LT1060 series

OEM Submersible Level Transmitter
Plastic probe for aggressive media
Ceramic sensor

Materontek
Sensing and Internet of Things

Features

- ❑ Measuring ranges from 0.5 mH₂O to 50 mH₂O
- ❑ Gauge pressure
- ❑ Accuracy: $\pm 0.5\%$ FSO(Typ.), $\pm 0.35\%$ FSO
- ❑ Calibrated and temperature compensated
- ❑ Ceramic sensor
- ❑ PP,PVDF & PTFE housing
- ❑ Output 4...20mA, I2C, MODBUS, HART and others

Application

- ❑ Level measurement
- ❑ Aggressive media level measurement
- ❑ Sewage treatment



Technical data

Measuring range

Nominal pressure [mH ₂ O]	0.5	1	2	4	5	8	10	12	15	20	25	30	40	50		
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Performance

Accuracy*	0.25%FS@25°C(Typ.) 0.5%FS@25°C(Max.)	*Linearity (best straight line) + Hysteresis + Repeatability
Operating Temperature	0 to 50°C	
Compensated Temperature Range	0 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 = 12... 30VDC
	2-wire	HART+4...20mA / V _S = 12... 30VDC
	3-wire	1...5VDC / V _S = 12... 30VDC
	3-wire	0.5...4.5VDC / V _S = 12... 30VDC
	3-wire	0...10VDC / V _S = 15... 30VDC
	3-wire	0.5...4.5VDC / V _S = 5VDC
	4-wire	I2C / V _S = 3.3...5VDC
	4-wire	MODBUS RTU / V _S = 12...30VDC
Insulation Resistance	100 MΩ@100VDC	
EMC Test	IEC61000-6-2/IEC61000-6-3	
Reverse polarity protection	No damage – no function	

Physical Specifications

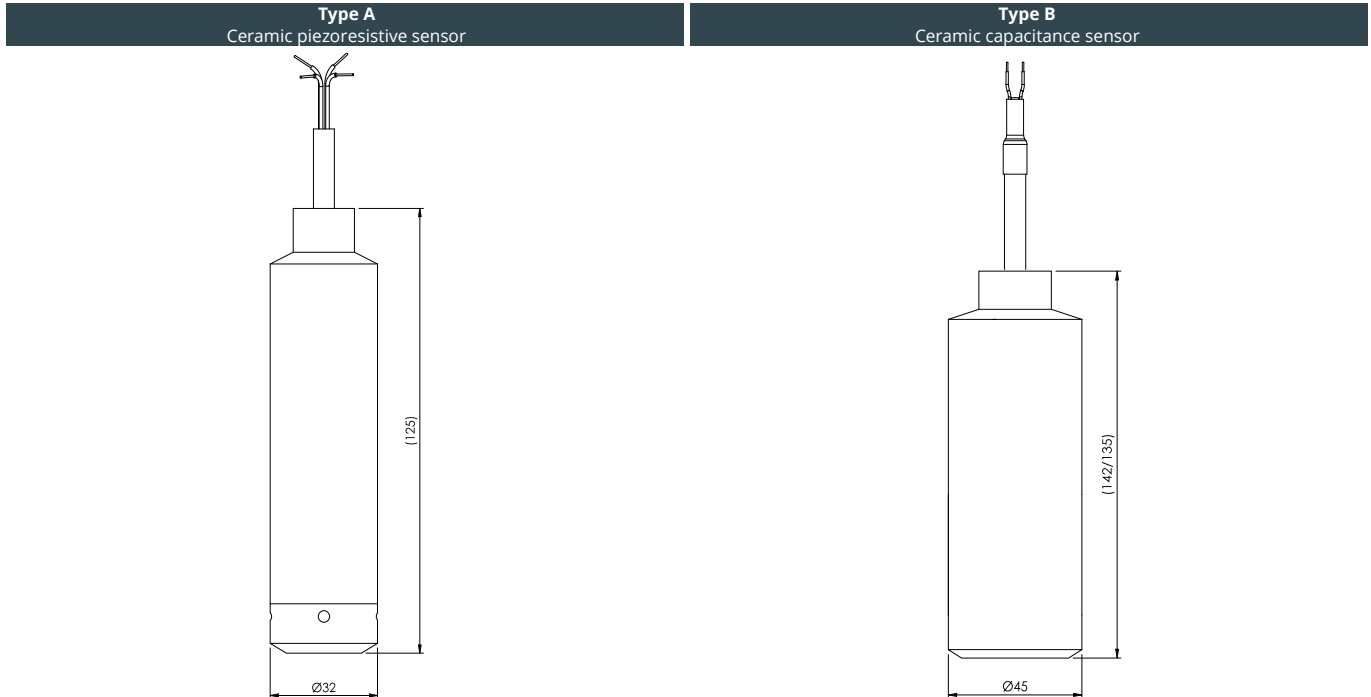
Housing	PP,PVDF & PTFE housing
Diaphragm	Ceramic 96%Al ₂ O ₃
Cable sheath	PUR, PE, PTFE
Oil Filling	Na
Protection	IP68
Weight	~200g (without cable)

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Dimensions (All dimensions in mm)



Electrical connections

Cable outlet	4...20mA 2-wire	1...5VDC 3-wire	0.5...4.5VDC 3-wire	RS485 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	Type	Range	Type	Output	Cable	Cable length	Housing
LT1060	A Ceramic piezoresistive sensor	01 0.5mH ₂ O	G Gauge	42 4...20mA	C1 PUR	XXX Cable length	H1 PP
	B Ceramic capacitance sensor	02 1mH ₂ O		15 DC1...5V	C2 PE		H2 PVDF
		03 4mH ₂ O		04 DC0.5...4.5V	C3 PTFE		H3 PTFE
		04 5mH ₂ O		25 DC0.5...2.5V			
		05 8mH ₂ O		05 DC0...5V			
		06 10mH ₂ O		01 DC0...10V			
		07 12mH ₂ O		10 DC1...10V			
		08 15mH ₂ O		H2 4...20mA+HART			
		09 20mH ₂ O		IC I2C interface			
		10 25mH ₂ O		R4 MODBUS RTU			
		11 30mH ₂ O					
		12 40mH ₂ O					
		13 50mH ₂ O					
		99 Custom					

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

