

Model WL-L series

Wireless Level Transmitter
WSN(Wireless sensor network),GPRS

Materontek
Sensing and Internet of Things

Description

WL-L is Wireless Level transmitter with wireless communication function. It uses isolated stainless steel pressure sensor as sensing element, specific IC for temperature compensation of zero and FS thermal error, battery for exciting. Wireless signal transmission conforms to WSN (Wireless sensor network) & GPRS internet protocol. Multiple WL can make up of WSN & GPRS & LORA internet system. It can be used for monitoring the actual data in a large scale, such as gas tank water seal detection, oil tank detection and industrial automation control detection etc. It is mainly applied in fields like petroleum, coal, tap water and automation control etc.

Features

- ❑ Measuring ranges from 1 mH₂O to 300 mH₂O
- ❑ Long life for battery,
- ❑ LCD display,
- ❑ Wireless output signal
- ❑ High accuracy, quick response
- ❑ High sampling frequency, anti-interference
- ❑ Low power consumption of the system
- ❑ Key operation, setting on the worksite
- ❑ Shock-proof, moisture-proof

Application

- ❑ Level measurement
- ❑ Water treatment
- ❑ IoT measurement



Technical data

Performance

Accuracy*	0.25%FS@25°C(Min.) 0.5%FS@25°C(Typ.) *Linearity (best straight line) + Hysteresis + Repeatability
Operating Temperature	0 to 60°C
Compensated Temperature Range	0 to 60°C
Long Term Stability	0.2 %FS

Electrical @25°C

Output signal / Supply	WSN(Wireless sensor network),GPRS
RF Frequency	430 MHz/470 MHz
Power supply	3.6V battery or 12/24VDC
Maximum range in open area	1km (max.)
Transmit power	20dbm(Adjustable)
Transmit interval	1s-255s (User definable)

Physical Specifications

Housing	Aluminum
Diaphragm	316L stainless steel
Sealing	NBR or Viton O-ring
Oil Filling	Silicone oil
Protection	IP67
Weight	~1kg(without cable)

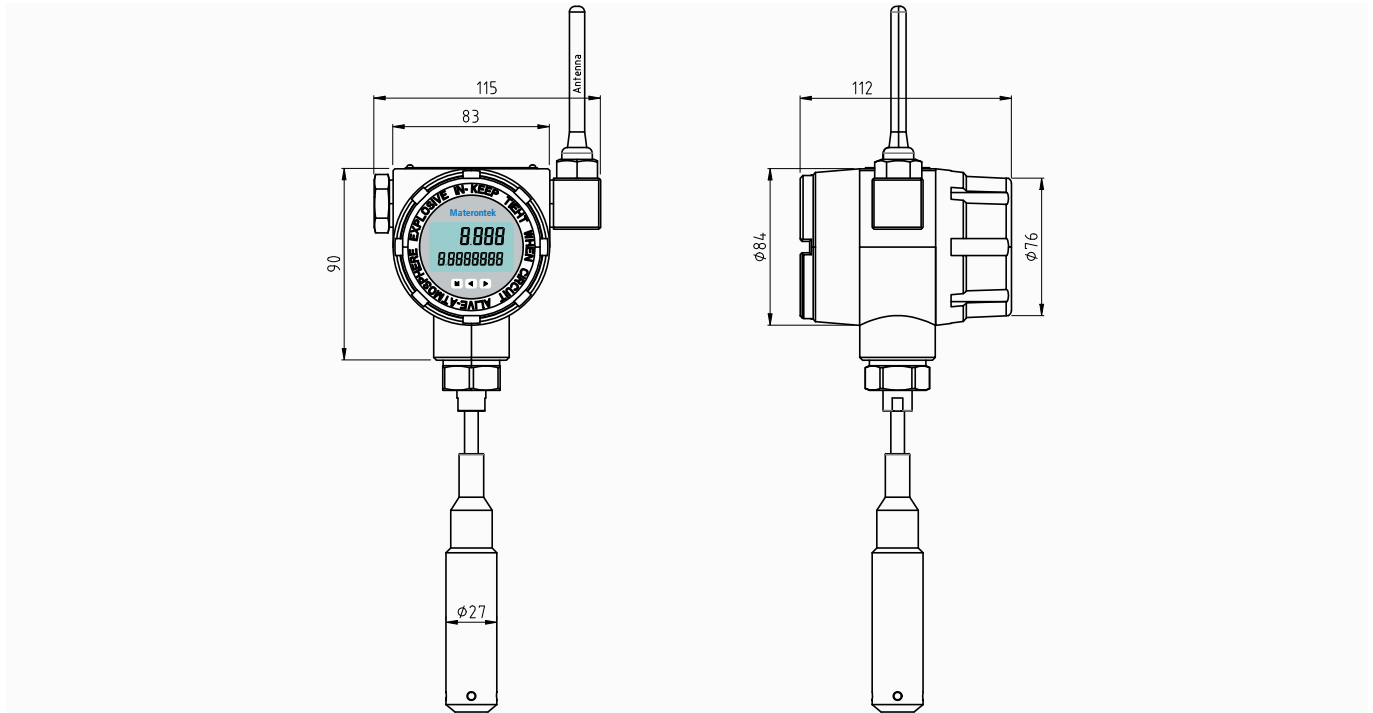
The listed specifications and dimensions are subject to change without prior notice

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Dimensions (All dimensions in mm)



Ordering code

Model	WL	
Type of measurement	L	Level measurement
Type of communication	W	WSN(Wireless sensor network)
	G	GPRS communication
Measuring range	[0~x]mH ₂ O	0~1mH ₂ O...300 mH ₂ O
Pressure type	G	Gauge pressure
Cable Length	[x]m	Customer definition
Housing/Protection Level	A	Aluminum/IP67
Cable Entry	M	M20x1.5
	N	½NPT
	B	3.6V battery
Power	C	12VDC
	D	24VDC
	S	solar panel
Approval	P	Standard (Non explosion proof)
	I	Intrinsically Safe (Ex ia IIC T6)
	D	Flameproof Approval (Ex d IIC T6)

Order Note

1. Please pay attention that the media should be compatible with contacting material;
2. If the user has special requirement, please feel free to contact our company.