

Model WL-T series

Wireless Temperature Transmitter
WSN(Wireless sensor network),GPRS

Materontek
Sensing and Internet of Things

Description

WL-P is Wireless temperature transmitter with wireless communication function. It uses isolated temperature 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 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 -200°C to 1600°C
- ❑ 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

- ❑ Hydraulic and pneumatic
- ❑ Machine building
- ❑ Pumps
- ❑ Water treatment
- ❑ IoT temperature measurement



Technical data

Performance

Accuracy*	0.5%FS@25°C(Typ.)
Measuring range	-200 to 1600°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
Protection	IP67
Weight	~1kg(without cable)

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

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Ordering code

Model	WL	
Type of measurement	T	Temperature Transmitter
Type of communication	W	WSN(Wireless sensor network)
	G	GPRS communication
Measuring range	T1	-50°C~100°C
	T2	-50°C~200°C
	T3	-100°C~100°C
	T4	-200°C~500°C
	T5	0°C~1000°C
	T6	0°C~1300°C
	T7	0°C~1600°C
	Tx	Special design
Process/Material	G1	Thread G1/2"
	G2	Thread 1/2"NPT
	G3	Thread M20x1.5
	G4	Thread M27x2
	G5	Clamp 1.5"
	G6	Clamp 2"
	F1	Flange DN50,DN80,DN100,...,DN250/304SS
	Fx	Special design
Probe length/Material	Lx	Special design /304SS
Probe diameter	D1	6 mm
	D2	8 mm
	D3	10 mm
	D4	16 mm
Housing/Protection Level	A	Aluminum/IP67
Cable Entry	M	M20x1.5
	N	½NPT
Power	B	3.6V battery
	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.