

Wireless Temperature Transmitter



Features

- NB-IoT / 4G network for application
- Integrated high-energy lithium battery, with service life over 2 years
- Data application in PC and mobile terminals, device data query
- Based on GIS managing system, device status prompt
- Support remote setting for data collecting frequency, data transferring frequency, etc.
- Indicator light alert for device state/ abnormal conditions
- Opened database and interface protocol, and available interface parsing file

Introduction

MTM6861 is an intelligent wireless temperature transmitter with low power consumption and wireless communication function. It can be equipped with various network including NB-IoT/4G. It reports the data according to the set interval and sends alarms to users. Customers can configure the device and inquire for data remotely. All the upload and download data will be stored into the database automatically for later query. It is more intuitive, accurate and efficient through PC or mobile terminals access internet to acquire and analyze data as well as forming with report and data curve. It can be used to measure the temperature of various kinds of liquid, gases and solid surface in the range of -50 °C ~ 100 °C . The transmitter can detect the real-time data of many monitoring points in a large area such as boiler water temperature, petrochemical, metallurgy, power station and other fields that need unattended and remote monitoring.

Specification

- Temperature Range: -50 ℃ ~150 ℃
- Accuracy: ±2 ℃
- Power Supply: 3.6V@38Ah Lithium Battery/9V~36V DC
- SIM Card: Nano SIM(12mm×9mm)
- Display: LCD display
- Keyboard: Panel key triggered
- Setting: In site/Remote control
- Weight: ≥1.5kgs
- Communication Mode: NB-IoT/4G
- · Communication Protocol: MQTT
- Consumption: Average current at sending status≤100mA@3.6V DC, at sleep mode≤25uA@3.6V DC

Environment Conditions

• Operation Temperature: -20 ℃ ~70 ℃

Storage Temperature: -40 ℃ ~85 ℃

Relative Humidity: 0%~95%

Protection: IP65

Explosion-proof: Exd IIC T6 Gb

Outline Construction (Unit: mm)

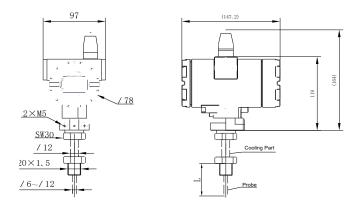


Fig.1 MTM6861 Wireless Temperature Transmitter

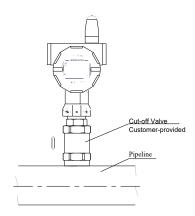


Fig.2 Installation of MTM6861 Wireless
Temperature Transmitter

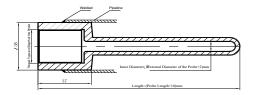


Fig. 3 Thermowell Reference (Customer)-provided)

Data Transmission

Communication Mode		Standard/Band	Transmission Distance	
Multi-	China	TDD-LTE B38/B39/B40/B41 FDD-LTE B1/B3/B8 TD-SCDMA B34/B39 WCDMA B1 CDMA 1X/EVDO BC0 GSM/GPRS/EDGE B3/B8	Global Bands	
Bands	Europe / Korea / EMEA/ Thailand / India	FDD-LTE B1/B3/B5/B7/B8/B20 WCDMA B1/B5/B8 GSM/GPRS/EDGE B3/B8	Closul Bullus	
	North America	FDD-LTE B2/B4/B12 WCMDA B2/B5		

Communication Mode		Standard/Band	Transmission Distance	
Multi- Bands	South America / Australia/ New Zealand / Taiwan, China	TDD-LTE B40 FDD-LTE B1/B2/B3/B4/B5/B7/B8/B28 WCDMA B1/B2/B5/B8 GSM/GPRS/EDGE B2/B3/B5/B8	Global Bands	
	NB-IoT	B3/B5/B8		

Order Guide

MTM6861	Wireless Temperature Transmitter										
	Rar	nge	Measuring Range(-50°C ~150°C)								
	[X~\	Y]°C	X and `Unit=°	and Y represent the lower and upper limits of the temperature nit= ℃,(-50°C ~150°C)(Default: 0°C ~100°C)							
			Code Communication Mode								
			GC	4G Mu	4G Multi-Bands in China mainland						
			GE 4G Multi-Bands in EMEA/Korea/Thailand/India						Thailand/India		
			GA	GA 4G Multi-Bands in North America							
			GS	4G Mu	4G Multi-Bands in South America/Australia/New Zealand/Taiwan, China						
			GN		NB-IoT						
			GD	GD 4G, 2G and NB-loT, three-in-one							
				Code	Powe						
				N Without Battery							
				E	Disposable Lithium-thionyl Chloride(Li-SOCI2) Battery(3.6V/38Ah)						
				Гр	D DC Power Supply(9V~36V DC)				6V DC)		
					Code Antenna Type A1 Integrated Antenna(Recommended)				enna(Recommended)		
					A2		External Sucker Antenna(Length=1m)				
					7.2		Code	,			
							S2	Self-o	elf-owned SIM card (Data Flow Service equired)		
								Code	Software Service Type		
								М	Micro Sensor Big Data Platform		
								С	Customer Self-built Platform (Note on Docking Mode)		
									Code Others		
									C1 Thread Installation, M20×1.5		
									C3 Thread Installation, G1/2 Male		
									C5 M20×1.5 Male Waterline Seal		
									L5 Length of probe L=50Mm(customized)		
									d Explosion Proof Exd IIC T6 Gb		
MTM6861	[0~10	00]°C	GE		A1	1	S2	M	C1L5 The whole spec.		

04

Introduction of Explosion Proof Exd IIC T6 Gb

Model: Intelligent Wireless Pressure Transmitter

Code: M 1 M6861-2-3-4-5

Explosion Proof Rate: Exd IIC T6 Gb Technical File: Q/MS J02.067-2019

Note:

1. Rated Voltage: 9~36V DC or 3.6V battery supply.

2. Code meaning:

1: P-Pressure, T-Temperature, D-Differential Pressure;

2: Pressure Range;

3: Communication Mode:

4: Power supply;

5: Antenna.

3. Housing Protection Class: IP65.

4. Environment Temperature: -20°C ≤Temp.≤70°C.

Order Notes:

- 1. Please choose the installation method and mounting interface according to the dimension of the mounting interface. The inserted depth of the probe should not be less than ten times of the diameter of the protective tube.
- 2. The default material of probe is stainless steel 304, unless otherwise specified.
- 3. The default cooling part length of temperature transmitter is 0mm, please specify if you have special requirement.

Type	Length		Diameter	Note
Length ofCooling Part	Default	0mm		-100°C <temp.<100°c< td=""></temp.<100°c<>
	Customized	20mm~50mm		-200 °C <temp.<200 td="" °c<=""></temp.<200>
	Default	50mm		
Probe Length	Customized	5mm~100mm	φ6(default) φ6~φ12	

4. If users need docking platform, please refer to the following (such as: I1);

Classification:

- 11: No docking, Micro Sensor platform is selected;
- I2: Retrieves data through the API interface;
- 13: Open limited access to the database and users can retrieve data themselves;
- 14: Force control configuration docking;
- 15: Provide communication protocol and users will write the analysis program to complete the docking;
- I6: Set up the resolution server, deploy the resolver, and deploy the default database (php+apache+Mysgl);
- I7: Set up the resolution server, deploy the specified database resolution program (sqlserver, oracle, postgresql...);
 - 18: Deploy the parsing SDK to parse the data according to the data format specified by the customer;
 - 19: Users customize docking method, note required.
- 5. For special requirements, please contact us and note in the order.