

Wireless Pressure and Temperature Transmitter

MPM6861T



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

MPM6861T is an intelligent wireless pressure and temperature transmitter with low power consumption and wireless communication function, which can be connected to two separate temperature and pressure sensors simultaneously. It can be equipped with NB-IoT/4G network. 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. The transmitter can detect the real-time data of many monitoring points in a large area such as fire pipe, fire terminal, fire pump room, urban water supply, petrochemical and other fields that need unattended and remote monitoring.

Specification

Temperature Sensor

- Measuring Range:-50 °C ~150 °C
- Accuracy: ±2.0% C

Pressure Sensor

- Pressure Range: 0kPa~20kPa...70MPa
- Accuracy: ±0.5%FS
- Over Pressure: 1.5 times FS
- Pressure Type: Absolute/Sealed Gauge
- Long Term Stability: ±0.5%FS/Year
- SIM Card: Nano SIM(12mm×9mm)
- Power Supply:3.6V@38Ah Lithium Battery
- 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 °C ~70 °C
- Storage Temperature: -40 °C ~85 °C
- Relative Humidity: 0%~95%
- Protection: IP65

Outline Construction (Unit: mm)

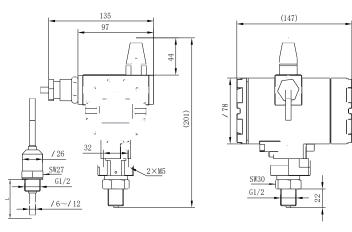


Fig.1 MPM6861T Wireless Pressure and Temperature Transmitter

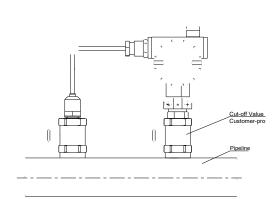


Fig.2 Installation of MPM6861T Wireless Pressure and Temperature Transmitter

Data Transmission

Communication Mode		Standard/Band	Transmission Distance	
Multi- Bands	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		
	Europe / Korea / EMEA/ Thailand / India	FDD-LTE B1/B3/B5/B7/B8/B20 WCDMA B1/B5/B8 GSM/GPRS/EDGE B3/B8	Global Bands	
	North America	FDD-LTE B2/B4/B12 WCMDA B2/B5		
	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		
	NB-loT	B3/B5/B8		

Order Guide

MPM68	61T	Wireless Pressure and Temperature Transmitter									
		Range Measuring Range									
		[0~X]k	Pa/MPa	X: measured range (0kPa~20kPa70MPa)							
		[X~	∕Y]°C	X and Y represent the lower and upper limits of the temperature Unit= $^\circ$,(-50 $^\circ$ C ~150 $^\circ$ C)(Default: 0 $^\circ$ C ~100 $^\circ$ C)							
					Code Communication Mode						
					4G Multi-Bands in China mainland						
				GE	GE 4G Multi-Bands in EMEA/Korea/Thailand/India						
				GA 4G Multi-Bands in North America							
					GS 4G Multi-Bands in South America/Australia/New Zealand/Taiwan, China						
				GN	GN NB-IoT						
				GD	4G, 20	4G, 2G and NB-IoT, three-in-one					
					Code	Code Power Supply					
					Ν	N Without Battery E Disposable Lithium-thionyl Chloride(Li-SOCI2) Battery(
					E			e(Li-SOCl2) Battery(3.6V/38Ah)			
						Co	de	Antenr	na Type		
						A1		Integrated Antenna(Recommended)			
				A2 External Sucker Antenna(Length				(Length=1m)			
					Code SIM Card						
				S2 Self-owned SIM card (D Required)				M card (Data Flow Service			
									Code	Software	e Service Type
									Μ		ensor Big Data Platform
									С		er Self-built Platform Docking Mode)
										Code	Others
										C1	M20×1.5 Male, face type seal
										C3	G1/2 Male, face type seal
										C5	M20×1.5 Male, waterline seal
										S	Sealed Gauge
										A	Absolute
										W	Separated Type Mounting Bracket
										L5	Probe length L=50mm(customized)
MPM68	61T [0~2]MPa	a[0~60]°C	G2	E	A	.1	S1	М	C1SL5	The whole spec.

1. Please make sure that the measured medium should be compatible with the contact of the product.

2. The minimum range of the absolute type transmitter is 0.1MPa.

3. To improve the reliability of the product, the installation of lightning proof and grounding are highly recommended.

4. 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.

5. With the further development of the temperature sensor technology, the measurement accuracy of the transmitter is also improved. Please pay attention to choosing the accuracy.

6. The default material of probe is stainless steel 304, unless otherwise specified.

7. The default cooling part length of temperature transmitter is 0mm, please specify if you have special requirement.

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

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

Classification:

I1: 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;

I4: 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+Mysql);

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.

9. For special requirements, please contact us and note in the order.