

## MT1280 Wireless Temperature Transmitter

### MAIN FEATURES

- Powered battery supply
- Ultra low power consumption design
- Wireless communication protocol, anti- interference, networking capability
- One-key switch function + timer switch function
- Intrinsically safe explosion



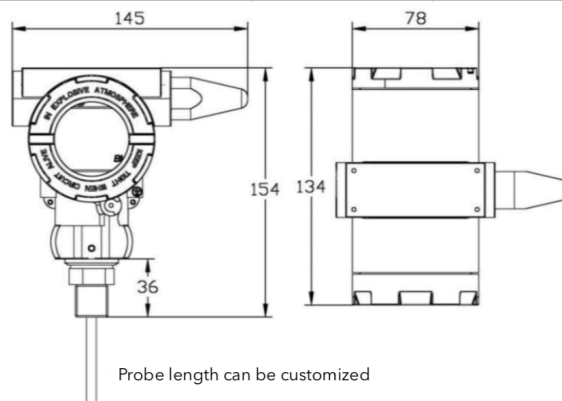
### OVERVIEW

MT1280 wireless temperature transmitter is suitable for temperature monitoring of petroleum oil and water well production, storage and transportation process. It adopts micro-power wireless communication mode, does not require cable power supply, and is quicker, safer and more convenient to install. Wireless communication uses GFSK/Lora/4G/IOT communication protocol, strong anti-interference ability, 16 physical channels are optional, 65535 network IDs can be set, and networking ability is strong. It also has a matching wireless switching device, which can convert many wireless temperature signals into MODBUS standard signals and transmit them through Ethernet or serial port. Convenient access to the measurement and control system has a wide range of applications.

### SPECIFICATION

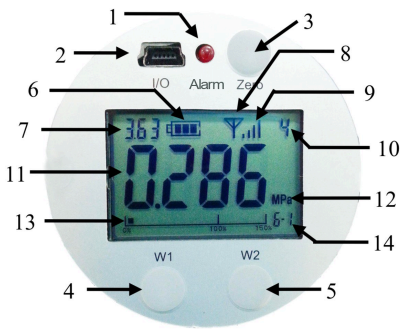
Measured medium	Liquid / gas / oil and 316 stainless steel compatible media	Communication	Lora/4G/NB-IOT/GFSK SWSN
Range	-30 ° C ~ 300 ° C (or customized)	Accuracy	±1.0°C or ±0.5°C
Alarms	Upper / lower limit alarm, full range can be set	Reporting frequency	1-255 seconds (GFSK standard); 1-999 minutes (LORA); 1 minute-12 hours (NB-IOT standard; 4G full Netcom)
Long term stability	±0.1% F.S/Y (typical)	Power supply	3.6V/7.2V lithium battery power supply
Work environment	-40 ° C~80 ° C , ≤95% RH	Display	4-digit LCD, 0-3 decimal point can be set
Power consumption	Reported average current ≤ 30mA, sleep flow ≤ 15ua, working current ≤ 13mA	Process connection	Standard M20 × 1.5 (or customized as required)
Protection level	IP67	Explosion-proof	Ex II 1G Ex ia da op is IIC T4 Ga
Sensor chip	German chips approved by Semtech	Data upload mode	Timed upload; limit upload (upper and lower limits can be set); change upload (change limit can be set)
Transmission distance	GFSK SWSN:1-2KM, Lora:2-8KM, NB-IOT (unlimited),4G (unlimited)	Usage frequency	GFSK SWSN/Lora:430~470~510M,860~930M (customized),NB-IOT: B1 B2 B3 B5 B8 B20, 4G:TD-LTE B38/39/40/41, FDD-LTE B1/3/8, WCDMA B1/8, TD-SCDMA B34/39, GSM B3/8

### TYPICAL STRUCTURE



Unit: mm

PANEL INTRODUCTION



Code	Description	Code	Description
1	Over-limit alarm indicator	8	Signal indication
2	Debug interface	9	Signal strength indication
3	Clear button, press 2s to clear drift	10	Channel indication
4	Calibration button 1	11	Temperature value
5	Calibration button 2	12	Temperature unit
6	Battery indicator	13	Temperature fullness indication
7	Battery voltage indication	14	Group number and number

TYPES & STRUCTURE

MODEL	FEATURE	OUTLINE CONSTRUCTION
MT1280	1. Classic structure 2. Integrated type 3. Probe length customized	
MT1281	1. Separated type with Pt100 2. High temperature wire 3. Max temperature 450°C 4. Cable wire length flexible	
MT1282	1. Integrated with pressure & temperature 2. Sensor probe length customized 3. Cable wire length flexible	

ORDER CODE

Code:	A	-	B	-	C	-	D	-	E	-	F
Model:	MT1280	-	0~250°C	-	PT	-	S	-	C	-	MA

Model	Code A
Classic structure	1280
Separated type with Pt100	1281
Separated type with sensor probe	1282
Temperature Range (X=specific)	Code B
-60°C~500°C	X °C
Other customized	C
Temperature type	Code C
PT100	PT
Thermocouple (E, J, K etc.)	T
Other customized	C

Accuracy	Code D
0.5%(typical)	T
1.0%(standard)	S
Probe length	Code E
Customized	C
Output signal	Code F
Zigbee	WZ
Lora	WL
4G	W4
More output customized	C