

Temperature & Humidity Monitoring Solution Provider

/ SINCE 2006 /



PRODUCT CATALOGUE

— www.tzonedigital.com —

Your Trusted Partner for Temperature & Humidity Monitoring Solutions



Main Market

We are collaborating with retailers and distributors from the United States, Europe, Latin America, Asia, and Africa



High Quality

All the products must pass our QC strictly inspection



Professional Team

We have our own engineers to research and develop products

 **21⁺**

21+ years specializing in temperature data logger

 **10⁺**

10+ millions data loggers sold worldwide



150⁺

Serving partners in 150+ countries

ODM/OEM

Available

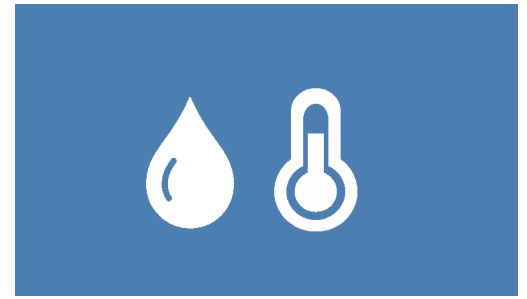
2000,000+

Annual sales of USB temperature data loggers

5000,00+

Real time data loggers

Application



Innovate
Innovate



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HANDHELD THERMOMETER SERIES



PTD601

PTD602

TC602

TC604

HTD701

HTD702

Temperature Range	PT100:-200°C ~ +660°C PT1000:-50°C ~ +300°C	PT100:-200°C ~ +660°C PT1000:-50°C ~ +300°C	K type:-200°C~+1200°C T type:-200°C~+400°C J type:-200°C~+1200°C	K type:-200°C~+1200°C T type:-200°C~+400°C J type:-200°C~+1200°C	-40°C~+125°C	-40°C~+125°C
Standard probe temperature range	-160°C~+300°C	-80°C~+120°C	0°C~+300°C	0°C~+300°C	-40°C~+125°C	-40°C~+125°C
Humidity Range	-----	-----	-----	-----	0%~100%RH	0%~100%RH
Memory Capacity	61440 data points	61440 data points	61440 data points	49920 data points	49920 data points	49920 data points
Accuracy	±(0.2% t +0.15)°C		±(0.3% t +0.4)°C		Temp:±0.2°C (-40°C~+90°C); ±0.3°C(other range) Humidity:±2%RH	
Dimension	183mm * 83mm * 35mm					
Unit	°C/°F/ K					
Resolution	0.1°C					
Measurement Rate	1 time/second					
Recording Interval	1~65535 seconds (adjustable)					
Operating Temperature	-10°C~+50°C					
Storage Temperature	-20°C~+60°C (without battery)					
IP Rating	IP52					
Power Supply	3PCS 1.5V AA Battery					

TRANSMITTER SERIES



THT02R

THT02C

THT03R

THT03C

Temperature Range	-40°C ~ +85°C	-40°C ~ +60°C	-40°C ~ +85°C	-40°C ~ +85°C
Humidity Range	5%RH ~ 95%RH(non-condensed)	0RH ~ 99.9%RH(non-condensed)	5%RH ~ 95%RH(non-condensed)	5%RH ~ 95%RH(non-condensed)
Resolution	Temp:0.1°C Humidity:0.1%RH			
Temperature Unit	°C	°C	°C/°F	°C/°F
Output	RS485	4-20 mA	RS485	4-20 mA
Accuracy	Temp:±0.3°C (0 ~ 60°C), ±0.5°C (other)	Temp:±0.5°C	Temp:±0.3°C (0 ~ 60°C), ±0.5°C (other)	Temp:±0.3°C (0 ~ 60°C), ±0.5°C (other)
	Humidity:±2% (10% ~ 90%)RH, ±4% (other)RH	Humidity:±3% RH	Humidity:±2% (10% ~ 90%)RH, ±4% (other)RH	Humidity:±2% (10% ~ 90%)RH, ±4% (other)RH



Greenhouse



Warehouse



Intelligent Building



Industry

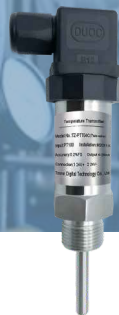


HVAC



Communication Room

TRANSMITTER SERIES



PTT04C



PTT04R



PTT04V



PTT05

Sensor Type	PT100			
Sensor Range	-200°C ~800°C			
Probe Measuring temperature range	-70 to 200 °C (default)			
Supply Voltage	24 VDC ±10% or 12 VDC ±10% (Recommended 24 VDC)	24 VDC ±10% or 12 VDC ±10% (Recommended 24 VDC)	24 VDC ±10% or 12 VDC ±10% (Recommended 24 VDC)	24 VDC ±10%
Display Mode	----	----	----	0.36 inch LED (red)
Sampling Rate	2 times/s	2 times/s	2 times/s	Fastest 10 times/s, slowest 1.8 times/s, rate adjustable
Installation Interface	M20 × 1.5 (Customizable)	M20 × 1.5 (Customizable)	M20 × 1.5 (Customizable)	G1/2 (Customizable)
Output	4-20mA(2-wire)	RS485(4-wire)	0-10V(3-wire)	4-20mA(2-wire)
Transfer Protocol	----	MODBUS Protocol	----	----
Probe Length	50mm,100mm,150mm, 200mm (Customizable)			
Start Time	Within 2 seconds			
Ambient Temperature	0 to 60 °C			
Ambient Humidity	5%~95%, no condensation			
Accuracy	±0.2%, ±0.5%			
Linearity	±0.2%, ±0.5%			

DIGITAL THERMO-HYGROMETER & TRANSMITTER



Thermo-Hygrometer

	MTD801-L40	MTD801-L200
▶ Sensor Type	Built-in Temp/Hum: SHT40 External Temp: NTC	Built-in Temp/Hum: SHT40 External Temp: PT200
▶ Temperature Range	-20°C~60°C(Built-in sensor) -40°C~70°C(External sensor)	-20°C~60°C(Built-in sensor) -200°C~200°C(External sensor)
▶ Temperature Accuracy	±0.3°C [0~60°C]; others ±0.5°C (Built-in sensor) ±0.5°C [-20~40°C]; others ±1°C (External sensor)	±0.3°C [0~60°C]; others ±0.5°C (Built-in sensor) ±0.3°C [-80~80°C]; others ±1°C (External sensor)
▶ Humidity Measuring Range	5%~95% RH	
▶ Humidity Accuracy	±3% [10%,90%]; others ±5%	
▶ Temperature Resolution	0.1%	
▶ Memory Capacity	34560 Records	
▶ Operating Temperature	-20~60°C, 5%~95%	
▶ Report Type	PDF and CSV	
▶ Bluetooth Protocol	BLE 5.3	
▶ Dimensions	102.5x108.5x21.5mm	



MTD501

Temperature & Humidity Transmitter

▶ Temp Measurement Range	-20°C~60°C
▶ Humidity Measurement Range	0~99.9%RH
▶ Measurement Accuracy	±0.3°C/±2%RH
▶ Resolution	0.1°C; 0.1%RH
▶ Sensitivity Attenuation	<0.1°C/year (Temperature); <0.1%RH/year (Humidity)
▶ Operating Voltage	20~36V DC (USB 5V)
▶ Output Current	4-20mA
▶ Product Power Consumption	<20mA (no-load)

VIBRATION DATA LOGGER



TDL06

Vibration Data Logger

▶ Sensor Types	Built-in three-axis acceleration sensor and NTC temperature sensor
▶ Measurement Accuracy	Acceleration: $\pm 0.1g + 5\%$ measurement value Temperature: $\pm 0.5^{\circ}\text{C}$ ($-20^{\circ}\text{C} \sim 40^{\circ}\text{C}$); $\pm 1^{\circ}\text{C}$ (Other)
▶ Resolution	0.1°C , $0.1g$
▶ Memory Capacity	34560 data points
▶ Temperature	$-30^{\circ}\text{C} \sim 70^{\circ}\text{C}$
▶ Measuring Range	Acceleration: $\pm 0 \sim 27g$ (three-axis vector sum); $\pm 0 \sim 16g$ (Single axis) Temperature: $-30^{\circ}\text{C} \sim 70^{\circ}\text{C}$
▶ Report Format	PDF and CSV format data report
▶ Acceleration Sampling Rate	50, 100, 200, 400, 1344HZ (Optional)
▶ IP Rating	IP65
▶ Battery Life	7 months (at 25°C ambient temperature, and with the default configuration)



GAS DETECTOR & TRANSMITTER

Temp & RH
Measurement

CO₂
0~10000PPM



CT01 CO₂ & Temperature Humidity Transmitter

▶ Transfer Protocol	RS485 serial port, standard Modbus-RTU
▶ Sensing Element	NDIR
▶ CO ₂ Measuring Range	0~10000ppm
▶ CO ₂ Measurement Accuracy	±(50ppm+3% reading value)
▶ Temperature And Humidity Sensing Element	SHT30
▶ Temperature And Humidity Measuring Range	Temperature: -40~85°C Humidity: 5~95%RH
▶ Temperature And Humidity Measurement Accuracy	Temperature: ±0.3°C (0~60°C); ±0.5°C for other range Humidity: ±2% (10%~90%RH); ±4% for other
▶ Sampling Interval	10s
▶ Resolution	CO ₂ : 1 ppm Temperature: 0.1°C Humidity: 0.1% RH
▶ Storage Temperature	-20~60°C
▶ Storage Humidity	0~95%

EX
0-100%LEL

H₂S
0-100PPM

CO
0-1000 PPM

O₂
0-30% VOL



FSD401 4-in-1 Gas Detector

▶ Display Error	±5%FS (combustible); ±10% (CO); ±2μmol/mol; ±10% (H ₂ S)
▶ Response Time	T<45s
▶ Indication	LCD real-time display; LED, sound and vibration for alarm/fault/low voltage
▶ Gas Type	EX, H ₂ S, CO, O ₂
▶ Measuring Range	EX (0~100)%LEL, H ₂ S (0~100)ppm, CO (0~1000)ppm, O ₂ (0~30)%VOL
▶ Operating Environment	-20°C ~ 50°C; humidity < 95%RH (non-condensing)
▶ Operating Voltage	DC 3.7V (lithium battery 2000mAh)
▶ Explosion-proof mark	Ex ib IIB T3 Gb
▶ Charging Time	6~8 hours
▶ Standby Time	16~18 hours (standard condition)
▶ Sensor Life	EX, H ₂ S, CO: 2~3 years; O ₂ : 5 years
▶ Resolution	EX 1%LEL, H ₂ S 1 ppm, CO 1ppm, O ₂ 0.1%VOL
▶ Dimensions	130×65×45 mm
▶ Weight	0.5 kg



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