

TP9000

Multi channel temperature recorder

7 inch color touch screen

- Expansion 200 channel
- Memory 70M, 2G (optional)
- Maximum accuracy $\pm 0.05^{\circ}\text{C}$
- Acquisition 1s, 0.1s (optional)
- TC/TR
- 485 / 232 network port communication



Multiple display interfaces

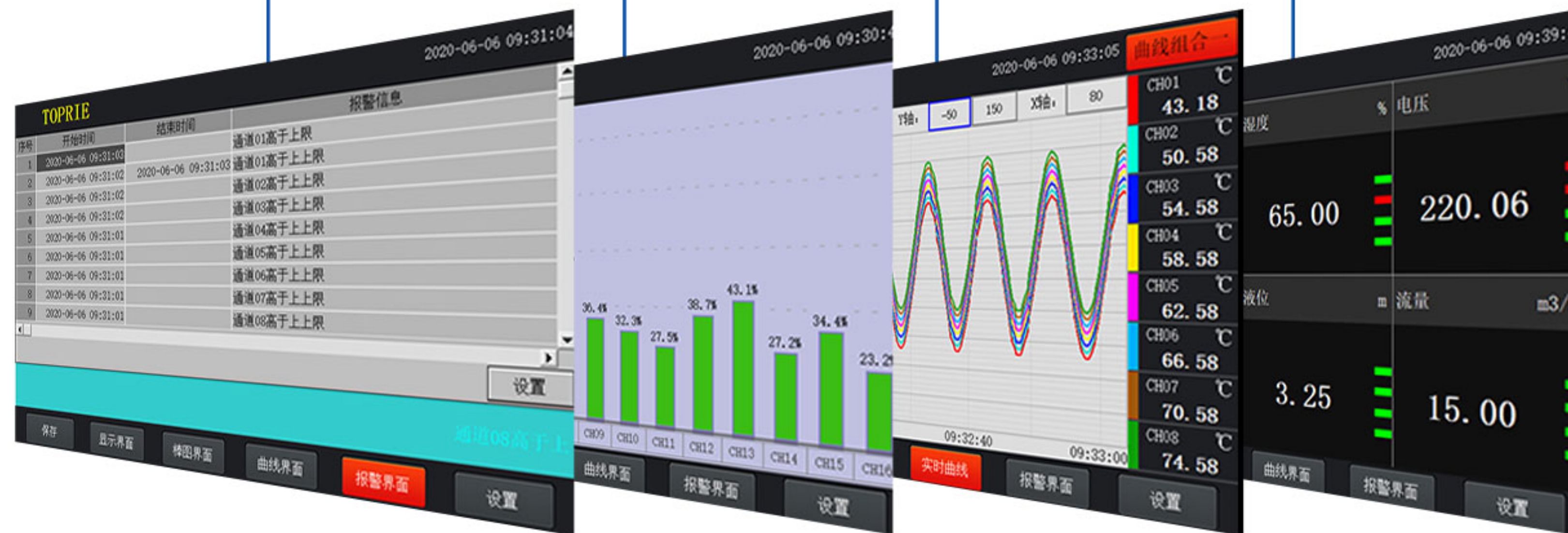
—Meet your various needs—

Alarm display

Bar chart display

Curve display

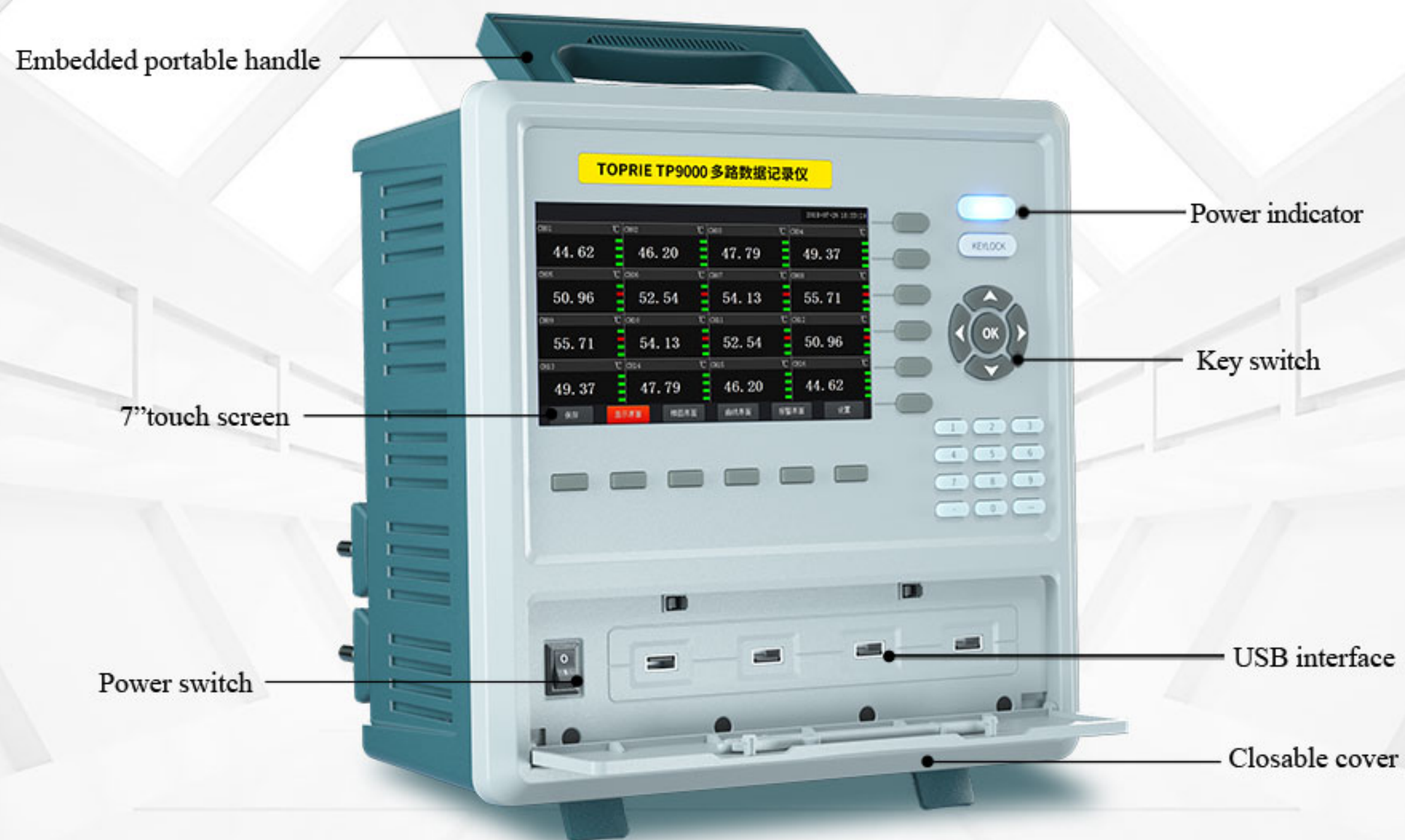
Numerical display



—Technical specification—

Power supply	AC power supply:85V~265V,DC power supply:12~25V (optional)
Lithium battery supply pack TP1701	Adpot 12V,4000mAH large capacity lithium polymer battery pack, output voltage DC 12.6V (optional)
Power consumption	less than 25VA(actual power consumption is related to the numbers of channel)
Numbers of Channel	1~200 channel
Input signal	Thermocouple:K ,E , R , B , N ,T , E , J , S , WRE5-26 , WRE3-25 Thermal resistor:PT100,PT1000
Sampling frequency	1~19999S self-setting
Recording storage	700M, 2G(optional)
Recording mode	Cycle recording
Alarm type	Up & low limit value alarm, each channel has 4 modes(Upper,up,low,lower)
Relay	8 channel open and close relay 250V/5A
Communication	Standard EstherNet,RS485,RS232 (can choose USB,4G/WIFI wireless communcation) Standard Modbus TCP communication protocol ,Standard Modbus RTUcommunication protocol
Working environment	Optimum temperature: - 20 °C ~ 50 °C; Limit: - 30 °C ~ 70 °C (consult customer service for details)
Working humidity	0~90%R.H(No condense)
Storage environment	0°C~50°C
Storage humidity	0~ 85%R.H(No condense)
Body material	Fireproof ABS
Dimension	288*288*200mm
Installation opening hole	278*278mm+1mm
weight	About 3-4 kg (related to the number of modules)

7-inch full touch color touch screen



USB Export Data

Embedded install

Isolated universal input

Handle is easy to carry

Optional built-in battery

Mobile monitoring data



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Free IoT platform to realize IE/WeChat remote monitoring

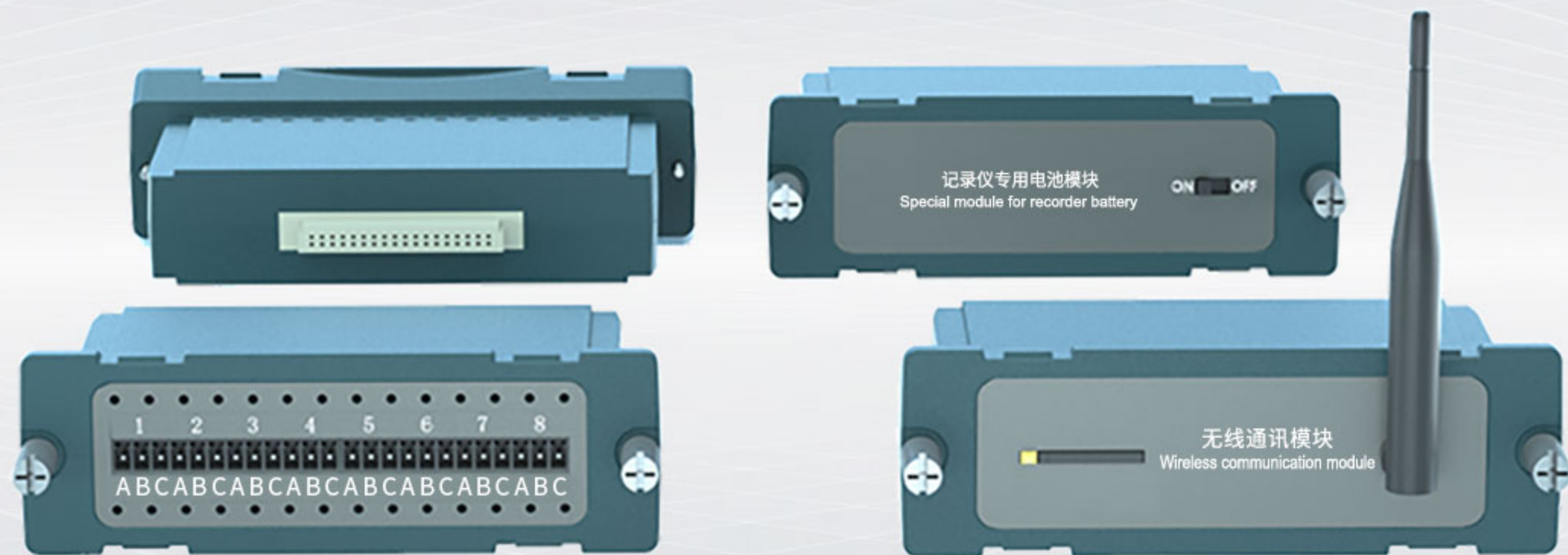
Support up to 200 channels

—Each 8CH is a group of modules, which can be expanded—



Supports hot-swappable input and output modules

——To expand the channel and upgrade function——



Each module specification model function description

Module name	Model	Function description	Parameter
Universal signal input module	TP1708P	Temperature:K,T,J,E,S,B,R,N,WRe3,WRe5 thermocouple, PT1000, PT100 platinum resistor	8 channel signal input
Quick acquisition module 0.1S	TP1708Q	Temperature: K,T,J,E,S,B,R,N,WRe3,WRe5 thermocouple, (only for 8 channel same type use)	8 channel signal input
Relay alarm output module	TP1708J	Adopt 8 normally open relay contact output Load capacity 5A250V	8 channel signal input
Wireless terminal DTU module	TP1702V4	Recorder host wireless module supports 4G Wireless data upload platform	(Custom)
Wireless terminal DTU module	TP1702V3	Recorder host wireless module supports 4G Wireless data upload platform	(Custom)
Recorder dedicated battery module	*TP1701	1 battery module can work continuously for 10 hours of 8-channel recorder Adopt 12V, 4000mAH high-capacity polymer lithium battery pack Multiple battery modules can be inserted to achieve longer delay test use	DC12.6Vouput
NTC temperature sensor acquisition module	TP1708NTC	Can be connected to 8 or 16 NTC temperature sensors 3600,3950, 3425, 3455, 3435 and many other specifications, customizable	8 channel or 16 channel (custom)

Acquisition module technical specification

	Input Type	Range	Accuracy	Resolution
measurement range	K	-60°C~+1372°C	±(0.05% rdg. +0.5°C)	0.01°C
	J	-100°C~+1200°C	±(0.05% rdg. +0.5°C)≤0°C ±(0.15%rdg.+0.5°C)	0.01°C
	E	-100°C~+1000°C	±(0.05% rdg. +0.5°C)≤0°C ±(0.15%rdg.+0.5°C)	0.01°C
	T	-100°C~+400°C	±(0.05% rdg. +0.5°C)≤0°C ±(0.15%rdg.+0.5°C)	0.01°C
	N	-100°C~+1300°C	±(0.05% rdg. +0.7°C)≤0°C ±(0.3%rdg.+0.7°C)	0.01°C
	w	0°C~+1500°C	±0.05%of rdg±0.8°C	0.01°C
		+1500°C~+2315°C	±0.05%of rdg±1.1°C	0.01°C
	R	400°C~+800°C	±0.2% rdg. +2.0°C	0.01°C
		+800°C~+1768°C	±0.05%of rdg±1.0°C	0.01°C
	S	800°C~+1768°C	±(0.05% rdg. +1.0°C)	0.01°C
		+400°C~+800°C	±(0.2% rdg. +2.0°C)	0.01°C
	B	+800°C~+1820°C	±(0.05% rdg. +1.0°C)	0.01°C
		+400°C~+800°C	±(0.2% rdg. +2.5°C)	0.01°C
	pt100	-200°C~+660°C	±(0.05% rdg. +0.3°C)	0.01°C
	pt1000	-200°C~+300°C	±(0.05% rdg. +0.2°C)	0.01°C

*Warm-up time is over 30 minutes, Thermocouple measurement: Including cold junction compensation accuracy.

*Standard working status(above accuracy): Temperature 25±3°C, Humidity:55±10%RH

*Environmental adaptation capability: Working temperature:-20°C to~50°C Working humidity:

*0~90%RH(No Condensation)

APP/Wechat remote monitor



TP series paperless record could connect the IoT platform via standard Ethernet (WIFI or 4G)

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Realize remote real-time data checking, history record exporting

Alarm Message sending ect on and let you could monitor devices anytime and anywhere.

Application fields

Various industries



Agriculture

traffic



environmental protection



power

Meteorological



Product dimension

