

TP700 Multichannel data recorder

Expansion 200 channel

Memory 70M, 2G (optional)

Maximum accuracy $\pm 0.05^{\circ}\text{C}$

Acquisition 1s, 0.1s (optional)

TC

TR

4-20mA/0-20mA

0-5V/0-10V

485 / 232
network port communication



Can support a variety of signal sensor access

One host is compatible with temperature, pressure, voltage, current, liquid level and other signal sensors at the same time



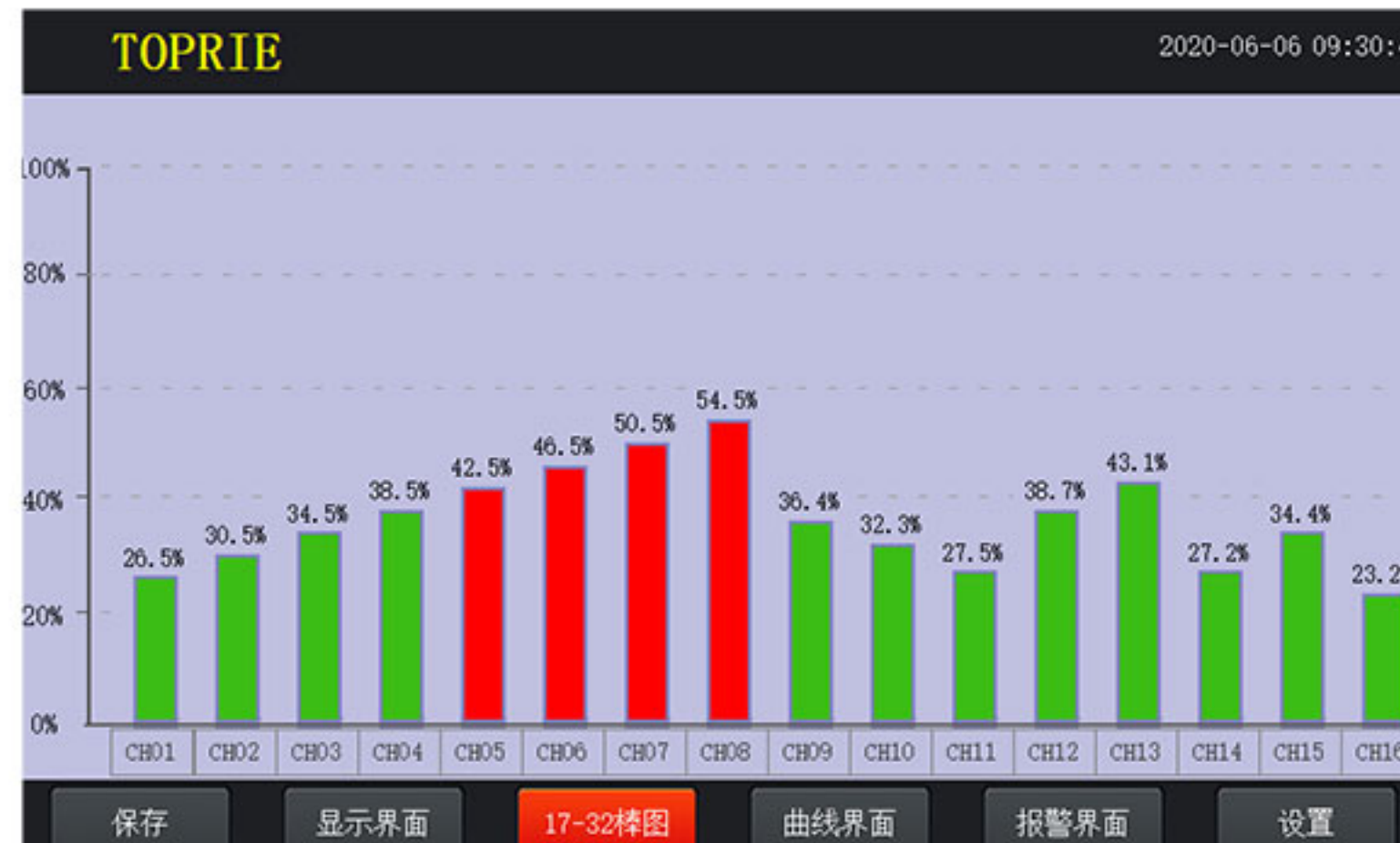
Multiple display interfaces



Numerical display



Curve display

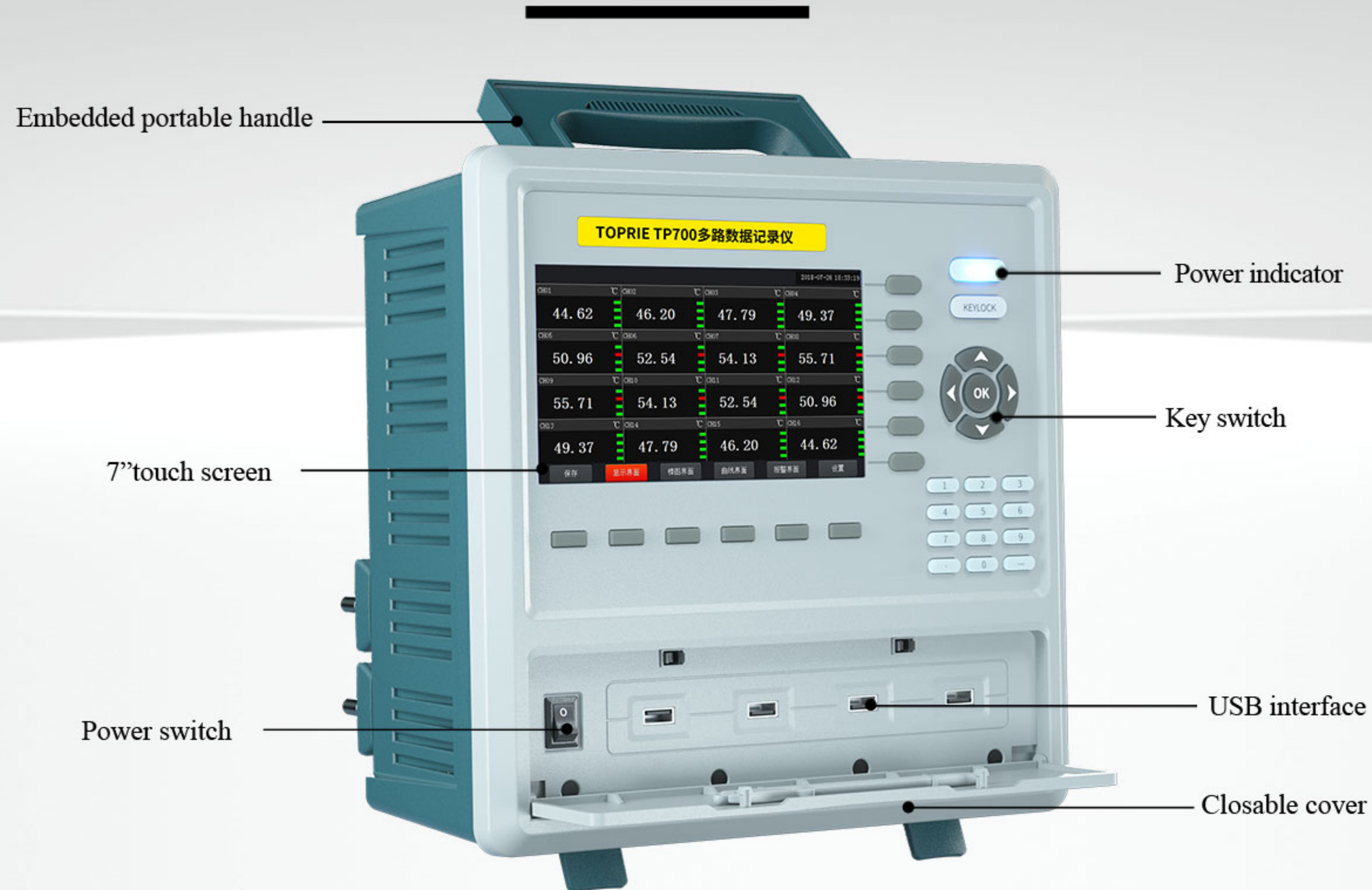


Bar chart display



Alarm display

7-inch full touch color touch screen



USB Export Data

Embedded install

Isolated universal input

Handle is easy to carry

Optional built-in battery

Multiple signal acquisition



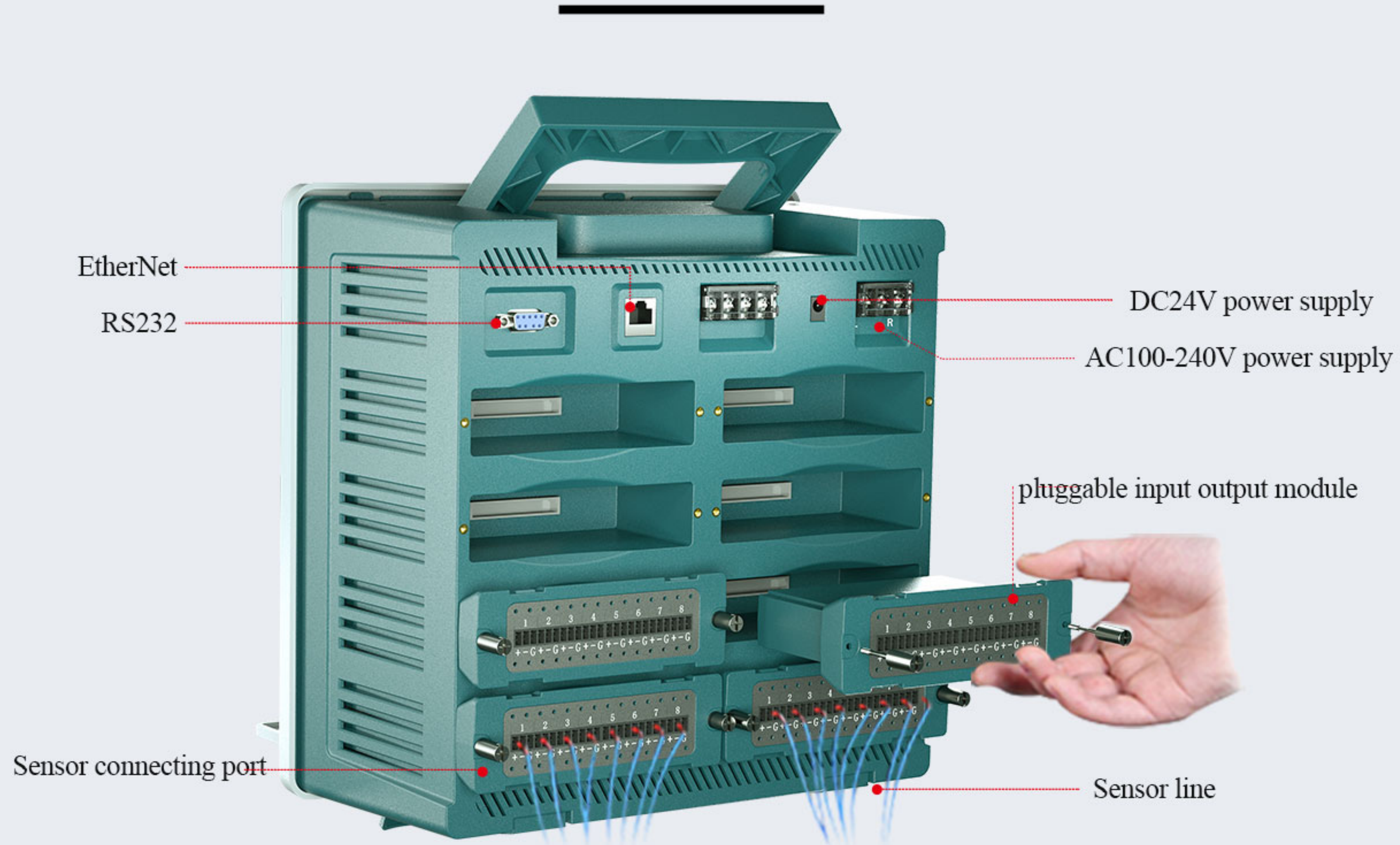
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Free IoT platform to realize IE/WeChat remote monitoring

Support up to 200 channels

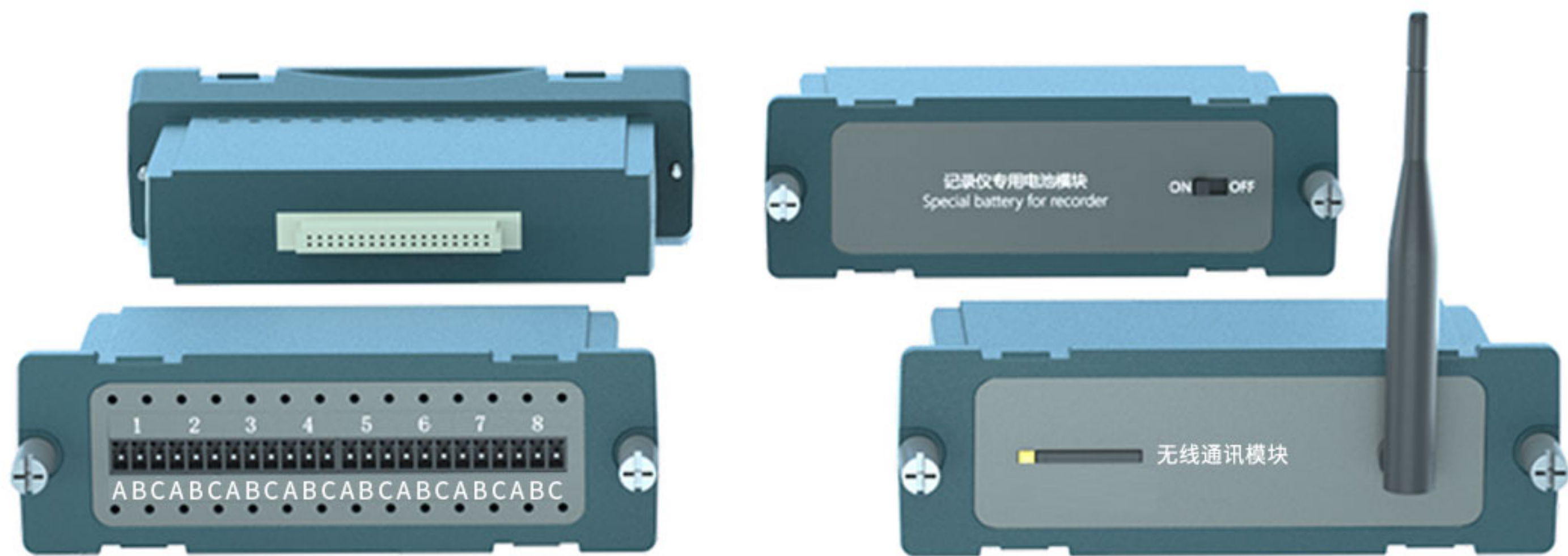
Each 8CH is a group of modules, which can be expanded

Can measure temperature, humidity, pressure, liquid level, voltage, current and other signals



Multi-function hot swap input output module

To expand the channel and upgrade function



Acquisition module technical specification

Input Type	Range	Accuracy	Resolution	
measurement range	0-10V	-0.5V~+11.000V	0.001% F.S. ±0.0001V	0.01V
	0-5V	-0.5V~+5.500V	0.001% F.S. ±0.0001V	0.01V
	±20mV	-21mV~+21mV	0.0025% F.S. ±0.001mV	0.01mV
	±100mV	-110.0mV~+110.0mV	0.0005% F.S. ±0.001mV	0.01mV
	4-20mA	+3mA~+21.00mA	0.005% F.S. ±0.001mA	0.01mA
	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
		0°C~+1500°C	±0.05%of rdg±0.8°C	0.01°C
	w	+1500°C~+2315°C	±0.05%of rdg±1.1°C	0.01°C
		400°C~+800°C	±0.2% rdg. +2.0°C	0.01°C
	R	+800°C~+1768°C	±0.05%of rdg±1.0°C	0.01°C
		800°C~+1768°C	±(0.05% rdg. +1.0°C)	0.01°C
	S	+400°C~+800°C	±(0.2% rdg. +2.0°C)	0.01°C
		+800°C~+1820°C	±(0.05% rdg. +1.0°C)	0.01°C
	B	+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
	cu50	-50°C~+150°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.

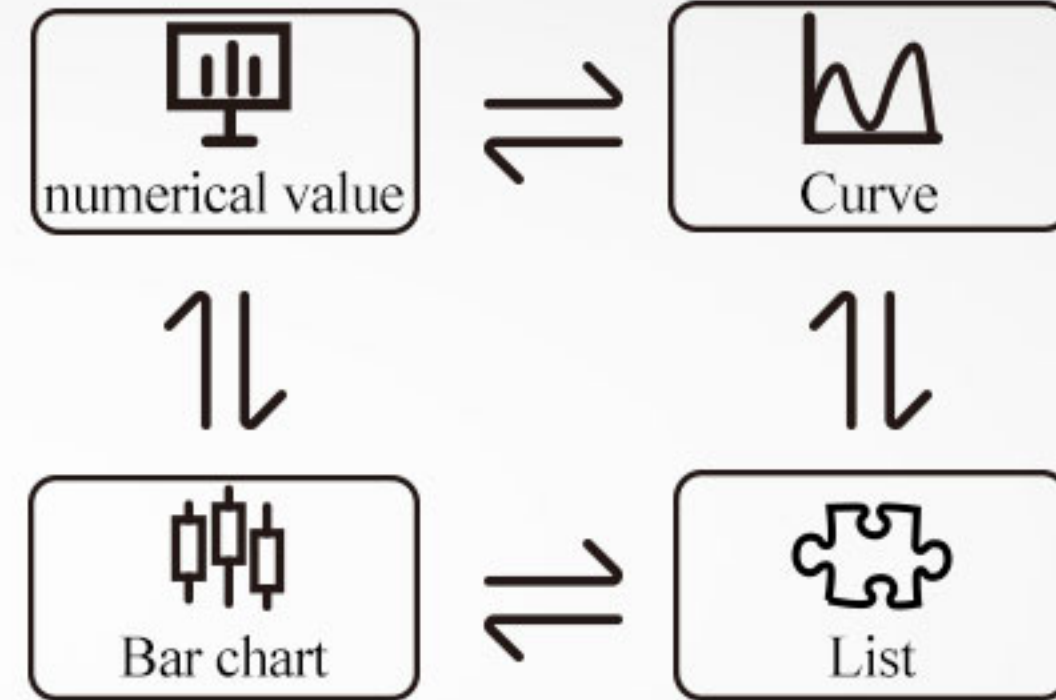
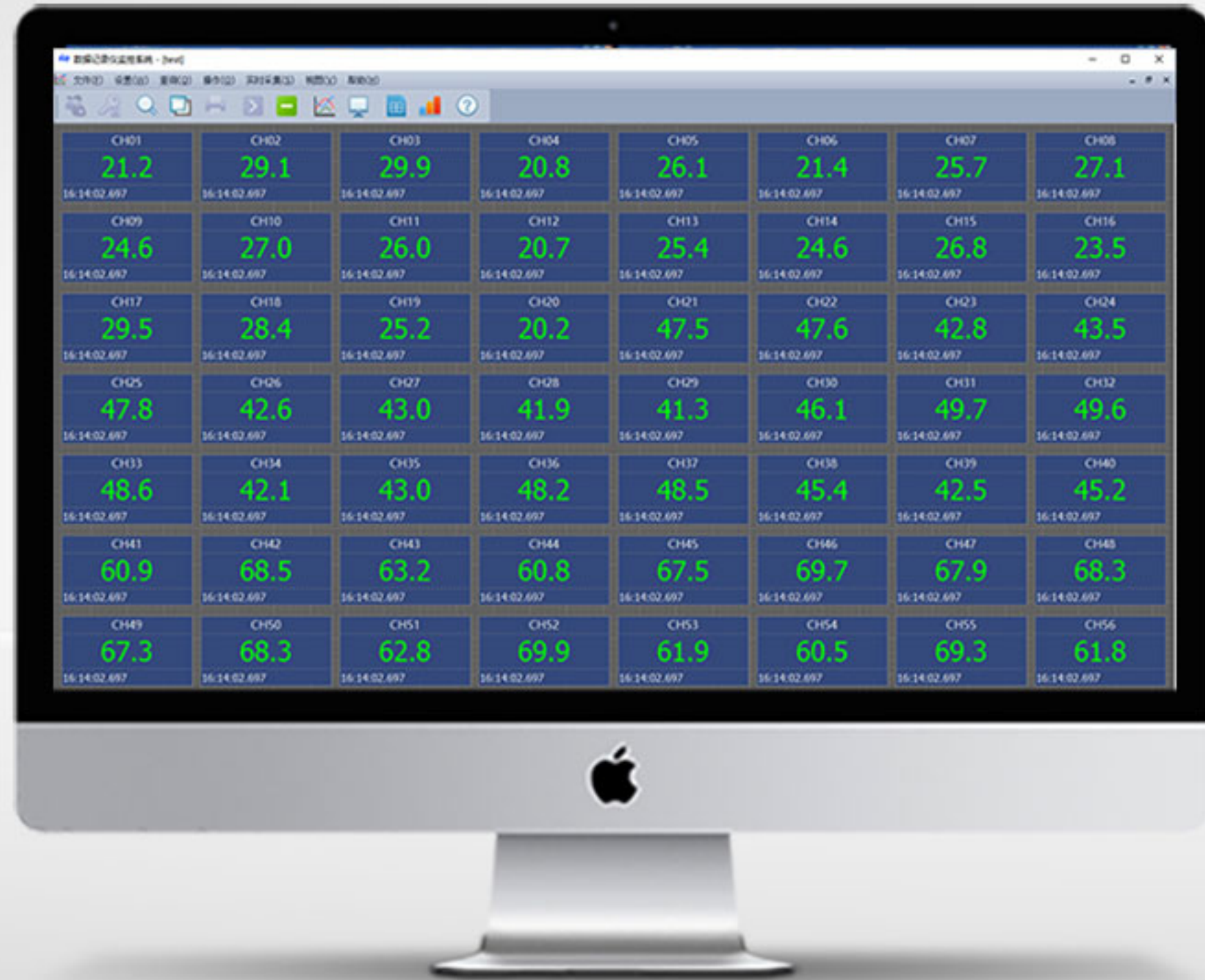
*Standard working status(above accuracy): Temperature 25±3°C, Humidity: 55±10%RH

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

*0~95%RH(No Condensation)

Strong master computer monitoring software

Standard RS232 serial port and EtherNet communication | curve and historical data export more convenient



Only need to match 4G / WIFI wireless module

Click connect the could platform, realize computer and wechat remote data-checking



computer and mobile wechat remote monitor

IoT platform

web.toprie.com
Remote IE monitor

Real time monitoring | alarm equipment | equipment map
Configuration application | data download | timing task

APP/Wechat remote monitor



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

[Click and type](#)

web.toprie.com Forever free, Opening IoT platform

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



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
	Current(DC):4~20mA, 0~20mA
	Voltage(DC):0~5V,0~10V, ±100mV
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/2A
Power distribution	1 channel 24VDC power distribution(can choose multi-channel 5V or 24V power distribution)
Communication	Standard EstherNet,RS485,RS232 (can choose USB,4G/WIFI wireless communication)
	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

Product dimension

