



# TP710 Paperless recorder

7 inches full touch color display

USB interface data export

All aluminum sealed shell and internal shielding plate

Normal operation in harsh environment

Fully isolated universal input, a variety of signal acquisition

Embedded installation 138 \* 138mm opening



## TP710 Paperless recorder

Free IoT platform to realize IE remote monitoring

Single machine up to 16CH

Standard Ethernet port

Embedded installation

Modbus Communication

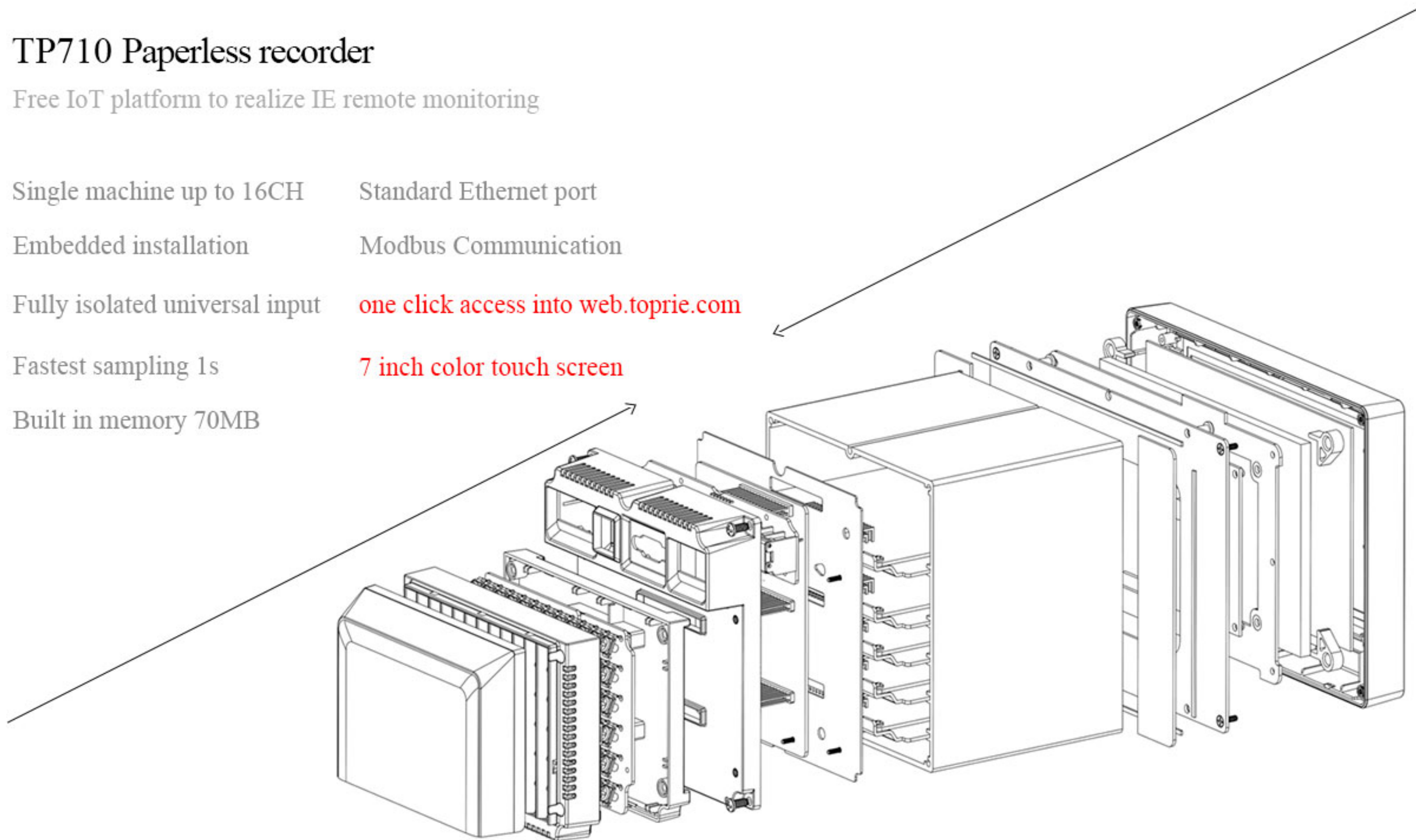
Fully isolated universal input

**one click access into [web.toprie.com](http://web.toprie.com)**

Fastest sampling 1s

**7 inch color touch screen**

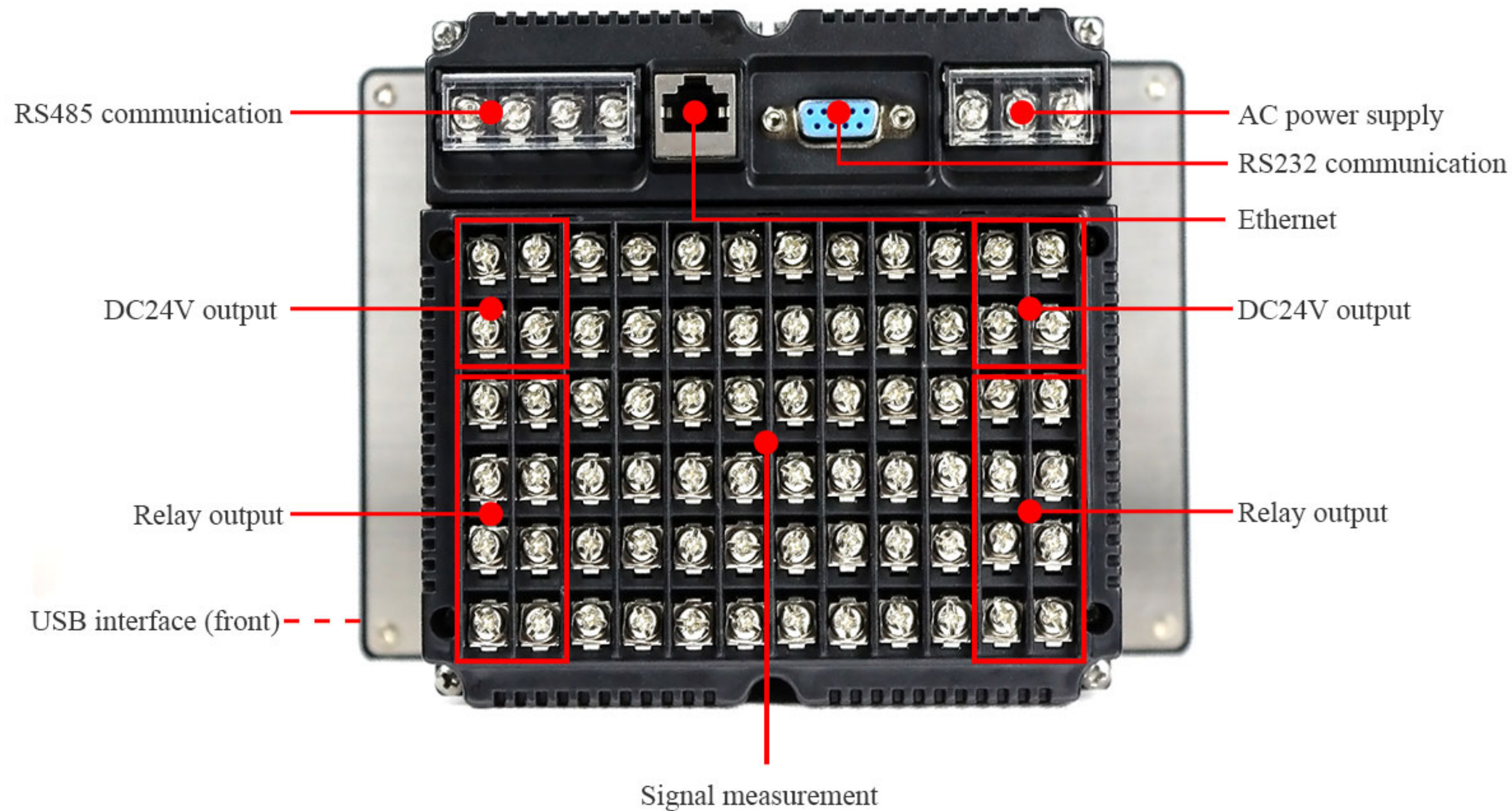
Built in memory 70MB



**Rock structure, ultimate technology**



## Interface description





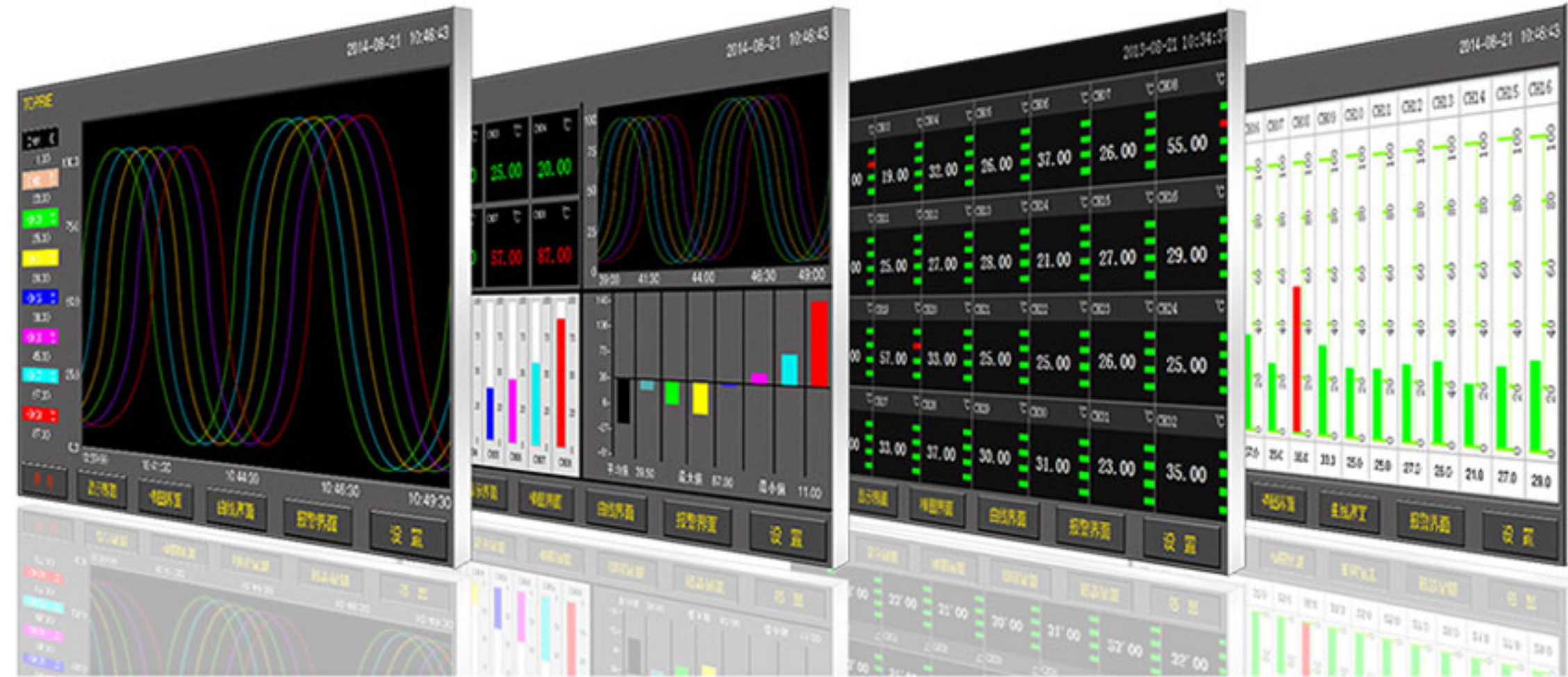
# Hd true color display screen

curve

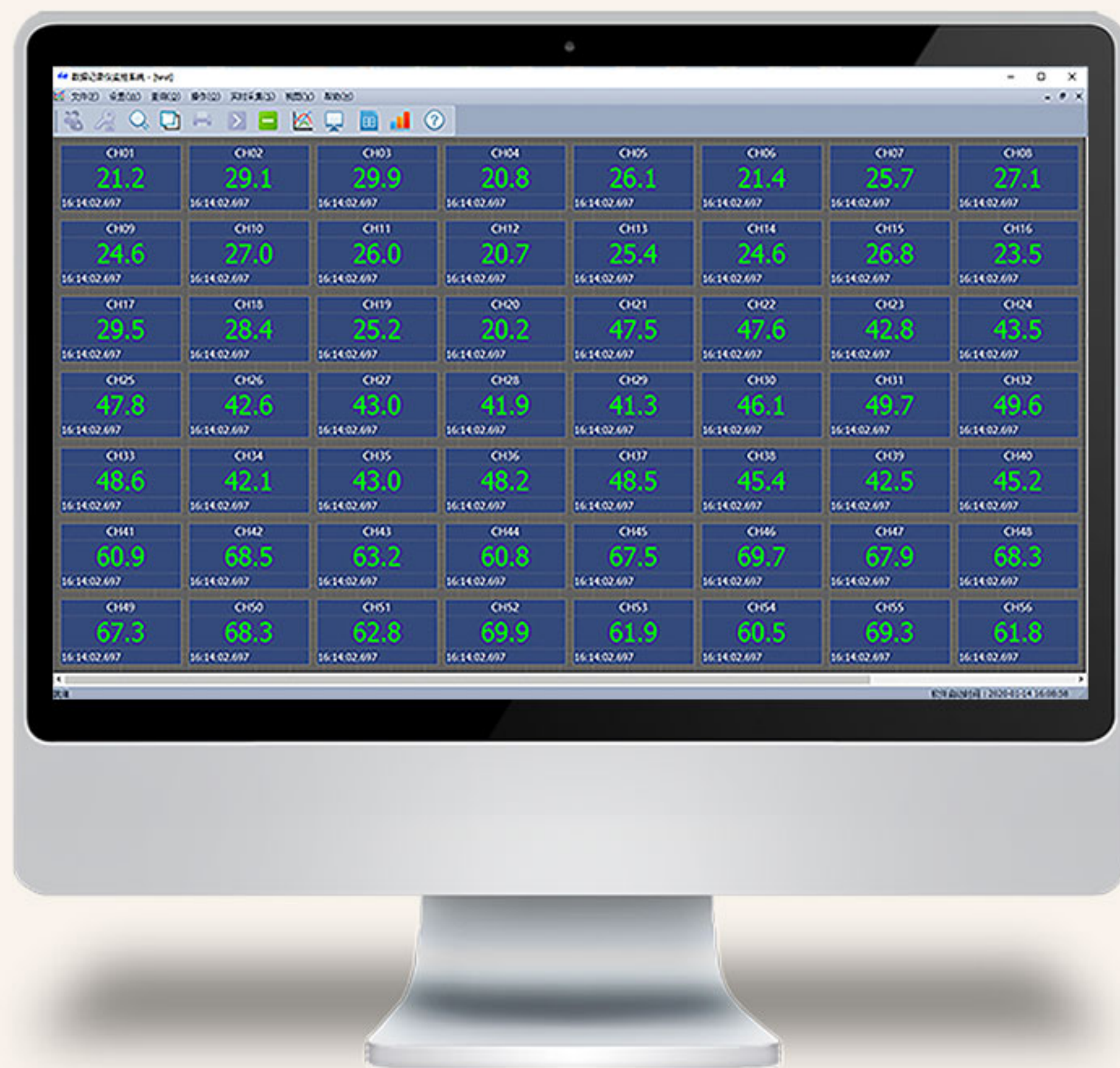
comprehensive

numerical value

Bar chart







## Powerful PC analysis software

Support simultaneous communication of multiple instruments

Real time display and save data

Curve Excel print export

Over-limit alarm



## Instrument technical parameters

AC power supply	AC85V~265V
power waste	≤25VA(Actual power consumption is related to the number of channel)
Number of channels	1-16 channel
Input signal	Thermocouple K , E , R , B , N , T , E , J , S , WRE5-26 , WRE3-25 Thermal resistor Pt100 , Pt1000 electric current 4-20mA,0-20mA Voltage 0-5V,0-10V
sampling frequency	1-19999s Self setting
Recording capacity (70m as the benchmark)	3 days (1 record interval) /90 days (1 minute record interval)
Recording mode	Cyclic record
Alarm type	Up and low limit value alarm,each alarm type has four modes (Upper,up,low,lower)
relay	8 channel normal open relay 220VAC/3A
power distribution	4 channel 24VDC power distribution (can choose multiple channel and 5VDC power distribution)
communication	Standard RS232,RS485,EtherNet (can choose 4G/WIFI wireless communication ect) Standard Modbus RTU communication protocol
Operating ambient temperature	0°C~50°C
Operating ambient humidity	Less than 85% R.H (no condensation)
Storage ambient temperature	-20°C~70°C
Storage Environment Humidity	Less than 95% R.H (no condensation)
Body material	ABS + aluminum alloy
Overall dimension	198*142*202mm
Installation opening size	138*138mm



# 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
		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)



# Application fields

Industry、Agriculture、chemical industry、Medical and pharmaceutical industry

environment、traffic、Animal Husbandry





# Specification dimension

