Portable paperless data logger with 16 channel universal input and thermocouple input function, it can detect thermocouple, RTD, NTC, DC current, DC voltage, frequency, pulse count and other signals at the same time, and the collected data can be vividly displayed through various forms such as digital interface, bar graph interface, real-time curve, etc. The device has rich peripheral interfaces such as USB, micro SD card, RJ45 (ethernet), etc. It is a portable recording instrument with rich functions, high integration and intelligence.

Features

1. Multi-channel input, supports up to 16 channels of input.

2. Support multiple signal types input, support multiple signal input such as DC voltage, DC current, thermocouple, RTD, NTC, frequency, pulse count, etc.

3. Support multiple types of thermocouple input, wide temperature detection range (-270-2320℃) .

4. With peripheral interfaces such as USB, micro SD card, RJ45 (ethernet), etc. Conduct real-time data monitoring on WEB through the RJ45 interface.

5. It has the signal acquisition function of current and voltage transmitters, which is convenient for connecting different types of sensor transmitters.

6. High-rate sampling, 16-channel signal acquisition is completed within 1S.

7. The data storage capacity is large, a single record file can record up to 100,000 records, and the total data storage capacity is at least 8 million records.

8. With data display functions, it can show digital display, bar graph display, single-channel detailed information display.

9. It has multiple recording modes such as immediate recording, timing recording, and timing stop, making the recording function.

10. With data analysis function, it can draw real-time curve and query historical curve.
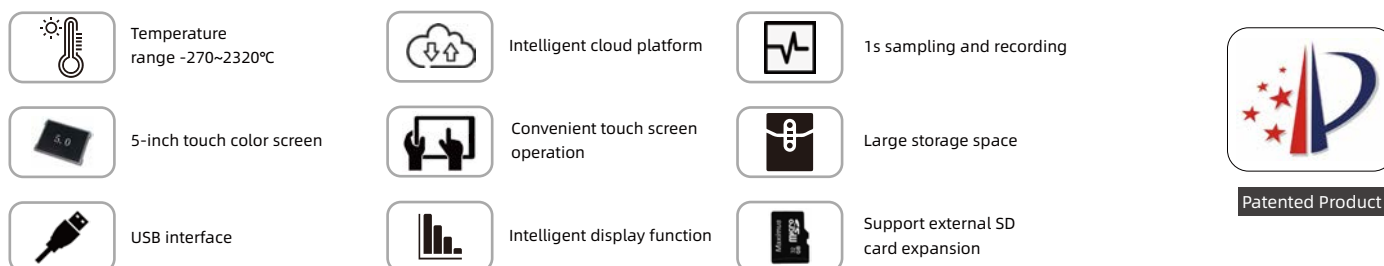

Applications

| Factory | Workshop | Labs | Warehouse |

JAKAR®
MEASUREMENT & CONTROL

Temperature range -270~2320℃	Intelligent cloud platform	1s sampling and recording
5-inch touch color screen	Convenient touch screen operation	Large storage space
USB interface	Intelligent display function	Support external SD card expansion

Patented Product

Product informations

Dimensions	189.3*103.5*39mm（With ProtectionWith protective sleeve）
Display	5 inch capacitive touch screen, resolution 800 * 480
Number of channels	16-channel universal input
Storage capacity	Single record capacity: 100000 records ; Total data recording capacity: 8 million records
Internal storage	32GB
External transfer	Support U disk (USB 2.0), SD card (32G)
Ethernet	Transmission rate: 10m / 100M bit / s , full duplex and half duplex
Battery capacity	5000mAh
Sampling frequency	1s at fast
Recording frequency	1s at fast
Data format	CSV file format
Working temperature	-10 - 50℃
Storage temperature	-20 - 60℃
Relative temperature	5% - 95% RH, no condensation
Shell material	PC + ABS material and The protective sleeve is made of 68 degree silicone.

Input signal			
Type（RTD input)	Measuring range（℃）	Resolution（℃）	Maximum allowable error(℃)
Two-Wire PT100	-200-850℃	0.01℃	±1.0℃
Three-Wire PT100	-200-850℃	0.01℃	±0.5℃
Four-Wire PT100	-200-400℃	0.01℃	±0.1℃

Thermocouple input (excluding cold junction error), accuracy does not include cold junction compensation error, cold junction compensation error: ±1.5℃			
K	-270-1370℃	0.01℃	±0.5℃
J	-200-760℃	0.01℃	±0.5℃
E	-270-980℃	0.01℃	±0.5℃
T	-270-400℃	0.01℃	±0.5℃
R	-50-1760℃	0.01℃	±2℃
S	-50-1760℃	0.01℃	±2℃
N	-270-1300℃	0.01℃	±2℃
B	600-1820℃	0.01℃	±2℃(600~1820)
C	0-2320℃	0.01℃	425℃：±4.5℃，425-2320℃：1.0%

Thermistor input			
NTC-10K	-25-150℃	0.01℃	±0.50%FS
NTC-2252	-25-150℃	0.01℃	±0.50%FS

DC current / voltage input			
Type	Resolution	Maximum allowable error（%FS）	
（1-5）V	0.001V	±0.1%	
（0-10）V	0.001V	±0.1%	
（0-5）V	0.001V	±0.1%	
（0-100）mV	0.001mV	±0.1%	
（4-20）mA	0.001mA	±0.1%	
（0-20）mA	0.001mA	±0.1%	
（0-10）mA	0.001mA	±0.1%	

Frequency and Pulse input(Only channel 1 can be used)			
Type	Measuring range	Maximum allowable error（%FS）	
Frequency	0~99KHz	±2Hz	
Pulse / count	0-4，000,000,000 Pulses		