The S1500 series product is a portable paperless data logger. With 8/12/16 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, TF card, RJ45, WIFI, etc. It is a portable recording instrument with rich functions, highly integrated and intelligent.

Models	Function description
S1508U	8 Channel universal input
S1512U	12 Channel universal input
S1516U	16 Channel universal input
S1508T	8 Channels thermocouple inputs
S1512T	12 Channels thermocouple inputs
S1516T	16 Channels thermocouple inputs

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, TF card, RJ45, etc., and 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 fifile 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

HUATO
HUATO ELECTRIC CO.,LTD

Portable Paperless Data Logger
S1500

Temperature range -270~2320℃	Waterproof and dustproof grade: IP54 **IP54**	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

Industrial Design:ZL 2021 3 0425887. X

Product informations

Dimensions	189.3*103.5*39mm（With ProtectionWith protective sleeve）
Display	5 inch capacitive touch screen, resolution 800 * 480
Number of channels	8-channel/12-channel/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
WIFI	2.4G (Optional)
Battery capacity	5000mAh
Sampling frequency	1s at fast
Recording frequency	1s at fast
Data format	CSV fifile format
Working temperature	-10-50℃
Storage temperature	-20-60℃
Relative temperature	5% - 95% RH, no condensation
Shell material	PC / ABS material and TPE

Input signal			
Type	Measuring range（℃）	Resolution（℃）	Maximum allowable error(℃)
Two-wiresystem	-200-850℃	0.01℃	±1.0℃
Three-wiresystem	-200-850℃	0.01℃	±0.5℃
Four-wiresystem	-200-850℃	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℃	±0.5℃
B	50-1820℃	0.01℃	±2℃
C	0-2320℃	0.01℃	425℃以下±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		