

ET3916 MULTI CHANNEL TEMPERATURE DETECTOR



Short Description:

With the characteristic of simple content, easy operation, large temperature data storage, ET3916 multi channel data recorder supports thermocouple input, such as J、K、T、E、S、N、B、R type, to reach the requirement of production line, laboratory and measurement development department. Its widely used in Lighting appliances, power tools, household appliances, electric motors, electric heating appliances, pharmaceutical, petroleum, chemical, metallurgy, electric power and other industries and scientific research units and other fields of production enterprises, laboratories, quality supervision departments

Key Features

- ▣ Adopt 5 inches industrial true-color display LCD display screen;
- ▣ Adopt high speed and high performance 32 bits ARM microprocessor, fast response speed; It supports multi channel signals' acquisition, recording, display, alarm;
- ▣ Each measurement module supports measurement of 8 channels, the max to 64 channels; Modules quantity can be equipped according to customers' requirement.
- ▣ The data can be displayed in three modes: numerical values, curves and bar charts. The numerical interface supports the values of 4/8/16/32 channels to be displayed in same time, and its automatic page-turning, the time of page-turning can be selected by multi-levels.
- ▣ 6 digits display, display range can reach -999.99~9999.99 ;
- ▣ Equipped GB2312 Chinese Character Library with full input method;
- ▣ Each channel supports parameter setting separately(including upper/ lower alarm, temperature calibration, display unit) and arbitrary naming;
- ▣ When the measured temperature excesses upper/ lower alarm, it will alarm (optional: relay alarm output)
- ▣ Real-time clock: adopt hardware real-time clock, lithium battery power; the max time error is ± 1 min/year
- ▣ Each channel is isolated, disturb of high frequency and isolated voltage peak value reach 400V
- ▣ Supports thermocouple measurement: J、K、T、E、S、N、B、R
- ▣ The 8GB FLASH memory chip is used to store historical data, and the data can be exported through the U disk;
- ▣ Measurement speed for option: slow speed: 1 s/channel, medium speed: 0.5 s/channel;
- ▣ USB-HOST and USB-DEVICE communication port; USB-HOST to export the historical data through U-Disk; USB-DEVICE to communicate with computer;

Technical Parameter

	ET3916 Series	ET3916-T Series
MODEL	ET3916-08、ET3916-16 ET3916-24、ET3916-32 ET3916-48、ET3916-64	ET3916-08T、ET3916-16T ET3916-24T、ET3916-32T ET3916-48T、ET3916-64T
Channels	8 channels ~ 64 channels	
Measurement Range	60mV	
Accuracy	0.05%FS	0.02%FS
Temperature Display Resolution	0.1°C	0.01°C



Supported Thermocouple Type	K、J、T、E、S、N、B、R (please check thermocouple sheet for details indicators)
Cold Compensation Accuracy	±0.5°C
Measuring Speed	Slow speed: 1 s/channel, medium speed: 0.5 s/channel
Display Mode	numerical , curve, bar charts
Calibration	isolated correction factor of each channel
Alarm	Isolated alarm setting(upper upper limit, upper limit, lower limit, lower lower limit)
Data Record Interval	1s
Data Storage	8G

Thermocouple sheet

Themocouple type	Temperature Range	ET3916 Series		ET3916-T Series		N/M
		Accuracy	Resolution rate	Accuracy	Resolution rate	
K	-200~1372°C	±0.8°C	0.1°C	±0.3°C	0.01°C	Exclude the error of thermocouple an cold junction compensation
J	-200~1100°C	±0.7°C		±0.25°C		
T	-100~400°C	±0.5°C		±0.2°C		
E	-50~830°C	±0.5°C		±0.2°C		
S	-50~1760°C	±2°C		±0.8°C		
N	-200~1300°C	±1°C		±0.4°C		
B	600~1820°C	±2.4°C		±0.95°C		
R	-50~1768°C	±2.1°C		±0.82°C		

General Information

- ▣ Power Voltage:220V.AC±10% , or110V.AC±10% , 45~65Hz ;
- ▣ Display: 5 inches industrial true-color display, 854×480
- ▣ Working Temperature:0°C~40°C
- ▣ Storage Temperature:-10°C~70°C
- ▣ Relative Humidity:<80%
- ▣ Communication port: USB Device、 USB Host(standard); RS232、 rely alarm output(optional) ;
- ▣ Dimension:260mm×300mm×100mm (L×W×H) ;

