

ATO Multi Channel Temperature Data Logger User Manual









Statement: thank you for using our instrument, the description of this specification may not be all the contents of the instrument, we have the right to improve and improve the performance, function, internal structure, appearance, accessories, packaging, etc. of this product without further explanation! The resulting instructions and equipment inconsistent confusion, but our company contact.

I. OVERVIEW

Multi-channel temperature recorder has been widely used in various industries with its rich display screen, flexible operation mode and powerful recording, operation, control and management functions. This product absorbs the advantages of various domestic and foreign data recorders, and applies the latest display technology, microelectronics technology, data storage and communication technology. It is a fully functional, easy to operate, accurate and reliable, high cost-effective product.

This product is displayed in the configuration color LCD touch screen. It can receive multi-channel temperature signal and realize the functions of multi-channel temperature display, recording, overrun monitoring, report generation, data communication and so on.

this product mainly uses 32-bit core processor ,8 G memory card storage, can save a lot of temperature data.

Data from a memory card can be quickly transferred to a computer via a U disk. The built-in memory card has a capacity of 8 G or more to 32 bytes, recording all channels data at a time of up to 1 second.









II. Functional characteristics

1. pen and paper records are not required, the daily maintenance workload is very small and the operating cost is low;

2. use high brightness touch color LCD screen, resolution 800*480. Backlight, clear picture;

The 3. uses a 32-bit ARM microprocessor, which enables simultaneous implementation of multiple channels (up to 64 channels within the instrument host)

and more) signal acquisition, recording, display and alarm;

4. use 8 G large memory card to store historical data, power loss never lose data; 5. a wider range of values showing the volume of work data shows a 6-digit value :-999,99~1999.99;

5. has a red alarm display indicating the lower, lower, upper and upper limits of each passage. 6. Alarm ;8-way relay alarm output (customized products);

7. display accuracy is high, the basic error is $\pm 0.5\%$ F • S 0.6°C;

8. equipped with standard USB2.0 interface. Can use the mouse keyboard easy to operate, output historical data transfer fast

Convenient ;(optional)

9. standard serial communication interface, RS485 and RS232C; with dual isolation

10. Supports standard ModBus RTU communication protocols, in addition to supporting our data management software

Other configuration software;









III. TECHNICAL INDICATORS

show

Five-inch color touch LCD digital display screen, bar picture screen, real-time (historical) curve screen, alarm display screen a total of four basic pictures.

| classification | YP5000 | | | | |
|--|---------------------------------|--|--|--|--|
| number of channels | 8/16/24/32/40/48/56/64 Optional | | | | |
| К | -100~1370 | precision \pm 0.5%+0.6 $^\circ \!$ | | | |
| J | -100~1200 | precision \pm 0.5%+0.6 $^\circ \!$ | | | |
| Т | -100~400 | precision \pm 0.5%+0.6 $^\circ \!$ | | | |
| S | 300~1768 | precision \pm 0.5%+0.6 $^\circ C$ | | | |
| R | 300~1768 | precision \pm 0.5%+0.6 $^\circ C$ | | | |
| Ν | 0~1300 | precision \pm 0.5%+0.6 $^\circ C$ | | | |
| В | 250~1820 | precision \pm 0.5%+0.6 $^\circ C$ | | | |
| E | -30~1000 | precision \pm 0.5%+0.6 $^\circ C$ | | | |
| resolution ratio | 0.1° | | | | |
| clock | 1 sec ~999 sec (set) | | | | |
| communication interface | standard configurationUSB、 | RS232 apolegamyRS485 | | | |
| Power Supply Voltage AC85~265 V frequency 50 Hz/60Hz<5 W | | | | | |

Other special features can be customized.









IV. Instrument dimensions:

Positive:(mm)



side:









V. Presentation of Panel Functions :



Front panel and function: to the right and left keys can operate each large page to switch different pictures. Pressing up and down can move five main pages to the right of the screen. Other keys are shortcut keys, can be used as necessary.back panel



• After the instrument is connected to the power supply, the system boot interface is displayed. Boot system completed, into the real-time numerical display interface. The following respectively









on the instrument keyboard operation, each operation display screen, each parameter setting screen to introduce.



1.Valuepage:

| YP5 | 000 | G | | | | | | | | | | LIGT |
|-------|--------|-------|---------|------|--------------------|-----|----|---|-----|----|---|--------|
| CH1 | К | r | CH2 | к | r | CH3 | К | Ĵ | CH4 | к | Ĵ | LIST |
| 19 | .2 | | 19 | .2 | | 19 | .2 | | 19 | .2 | | CURVE |
| CH5 | K | Ĵ | CH6 | K | ය ර | CH7 | K | Ĵ | CH8 | K | Ĵ | BAR |
| 19 | .2 | | 19 | .2 | | 19 | .3 | | 19 | .2 | | ARARM |
| CHANN | IEL NU | IMDEF | R: 8 DI | SPLA | .Y: <mark>1</mark> | ~ 8 | | | - | | | SYSTEM |

This page mainly shows the number of channels, measured values and alarm signs three parts. Alarm signs from top to bottom in turn for the upper upper limit alarm, upper limit alarm, lower limit alarm, lower limit alarm. when the value is normal, the alarm sign is green, when the alarm value is exceeded, the









corresponding alarm sign will change from green to red (or: when the alarm appears, the corresponding alarm sign will change from green to red) the alarm value can also be set in the parameter setting.

The numerical interface shows the real-time values of multiple channels, can touch the click screen single channel numerical setting parameters, pop up the following paGe



parameter setting page: lower limit, lower limit, upper limit, upper limit, cold end compensation, channel compensation can all set the value through this bullet window. After setting up, click OK button to exit the pop-up window, click cancel button to restore the value of click enter. the middle black area displays real-time values. (Note: The name, unit, type are set uniformly on the system page, only show here)

2. curve interface:

The current curve record only retains the display data of a single screen, which can be viewed by changing the temperature range of the display by changing the value of the Y axis, or by dragging the X axis time period by the direction key. The time scale in recall mode can not be changed and is determined by the interval between records stored in memory cards

History curve screen memory card records for long-term data preservation, generally set a longer recording interval; record interval from 1 second to 9999 seconds to select, the recording interval of each channel is consistent. According to the need of production process, setting the interval of memory card record reasonably, taking into account the contradiction between record interval and time, can accurately reflect the change of process parameters. (Set Record Interval Time)(Set Record Interval Time at the System Settings button to enter the System Parameter Test Select Set

Record Interval Time, described later)











3. column chart page:

Column diagram interface: the Y axis measuring range can be set by itself, each channel is represented by different colors, and the measured values are displayed above the column of each channel.









Display all alarm data, display up to 2000 sets of alarm data.

| AR | ARM | | 2019/11/21 10.:57:53 | LIOT |
|----|---------------------|------------------------|----------------------|--------|
| NO | START TIME | END TIME | ALARM MESSAGES | LIST |
| 1 | 2019/11/21 09:22:15 | 2019/11/21 09:22:20 | CH1 HH | CURVE |
| | | | | |
| | | | | BAR |
| | | | | |
| | | | | ARARM |
| | | | | |
| | T PAGE NEXT PA | <mark>ge</mark> page 1 | / 1 | SYSTEM |

5. system

This page system parameter setting, export data page. Mainly used to set system date, system time, storage interval time, language, unit of measurement, baud rate, buzzer, address, measurement speed setting.

| SYSTEM EXPORT | | |
|-------------------|---------------------------------------|--------|
| TIME: 2019/11/2 | 21 10.:57:53 | LIST |
| LANGUAGE: ENGLISH | BUZZER: open | CURVE |
| UNITS: C | ADDRESS: 1 | |
| SENSOR: K | MEASURING SPEED: 1 S | BAR |
| BAUD RZTE: 9600 | RECORD INTERVAL: 1 S | |
| | | ARARM |
| | NUMBEL: 8 CHANNELS | |
| | Shenzhen Yongpeng instrument Co.,Ltd. | SYSTEM |

Click Export Data to enter the Export page (see below)







6.ExportData

| Page | |
|--|---------------------|
| | |
| START TIME 2019 - 4 - 15 00 : 00 | : 10 |
| END TIME 2019 - 8 - 15 12 : 00 | : 00 |
| REMINDER: 1. PLEASE INSERT U DISK BEFORE USING DATE EXPORT | EXPORT DATA QUICKLY |
| 2、WHEN THE ERPORT OPERATION IS PERFORMED, PLEASE SEE THE "EXPORT COMPLETED" PROMPT BEFORT TAKING OUT THE U DISK | EXPORT ALL |
| 3、 DUE TO THE LIMITED STORAGE SPACE OF THE SYSTEM, PLEASE EXPORT IMPORTANT DATE IN TIME | RETURN |

Fast export data: can choose time period to export data, high efficiency export speed.

All export data: directly export all saved data on disk, can not choose the time period.

return: go back to the system settings page.

| 0 | 1- " | (* - 10 |)• | | | | | | | | | 2019 | 91123(1) - | Microsoft | Excel | | | | | | | | | | | - 0 | 1 23 |
|------|-----------|---------|---------------------|----------|----------|----------|--------------|----------|--------|---------------|-------|------|------------|-----------|-------|-------|------|----|------|---|----|----------|----|--|------|-------|-------|
| | 开始 | 插入 | 页面布局 | 公式数 | 据 审选 | র ধ্যায় | 开发] | C,R | | | | | | | | | | | | | | | | | | 0 | . = x |
| 100 | N W HOHD | | | | | | | | | | | | anna. | | | | | | | | - | m. 8 | | T making | . A. | .4.5. | |
| | (0 954) | 宋体 | | - 11 - | A A | = = | 39 | 許自城 | 與行 | 常規 | - | - 33 | | 常規 | | 差 | 好 | | 适中 | | - | a | | | Z | úñi - | |
| 相多 | 1 18-TR | D | r 11 -] [[]] -] | A . A . | wefe _ 1 | | | | ter a | . N . | .0.0. | 条件格式 | 衰用 | 计算 | | 检查单元格 | 解释性. | 文本 | 警告文本 | = | 插入 | 删除 1 | 橋式 | ()) · · · · · · · · · · · · · · · · · · | 排序和 | 查找和 | |
| - | V 100,000 | D | | <u></u> | X | | and also | EN HITTA | HANN T | - 10 , | 00 -0 | * | 表格格式、 | | | | | | | | | | * | CE name | 等选 ~ | 选择 - | |
| | 剪贴板 | | 字体 | | G | | 对齐方式 | | G | 数字 | 6 | | | | | 样式 | | | | | | 单元格 | | | 编辑 | | |
| | 012 | | (fx | | | | | | | | | | | | | | | | | | | | | | | | * |
| 1 | A | | В | | C | I |) | 8 | F | G | Н | | I | J | К | L | М | N | 0 | P | | Q | R | | S | Т | U |
| 1 | serial nu | mber : | anpling tim | e | CH1 | CH2 | CHS | | CH4 | CH5 | CH6 | CH7 | CH | 8 | | | | | | | | | | | | | |
| 2 | | 0 | 2019-11-23 | 15:00:0 | 0 24 | E. 9 | 25 | 24.8 | 24. | 6 24. | 7 24 | t. 7 | 24.8 | 25 | | | | | | | | | | | | | _ |
| 0 | | 2 | 2019-11-23 | 14:09:0 | 9 24 | 6.9 | 24.9 | 24.1 | 24. | 6 24 | 7 2 | t. (| 24.1 | 24.0 | | | | | | | | | | | | | |
| 5 | | 3 | 2019-11-23 | 14.59.5 | 7 24 | 1.9 | 24.9 | 24.7 | 24. | 4 24 | 7 2 | 1.6 | 24.6 | 24.8 | | | | | | | | | | | | | |
| 6 | | 4 | 2019-11-23 | 14:59:5 | 6 24 | L 8 | 24.9 | 24.7 | 24. | 4 24. | 6 24 | 1.6 | 24.6 | 24.7 | | | | | | | | | | | | | |
| 7 | | 5 | 2019-11-23 | 14:59:55 | 5 24 | . 8 | 24.9 | 24.6 | 24. | 4 24. | 6 2 | 1.6 | 24.6 | 24.7 | | | | | | | | | | | | | |
| 8 | | 6 | 2019-11-23 | 14:59:5 | 4 24 | L. 8 | 24.8 | 24.6 | 24. | 4 24. | 6 24 | ŧ. 6 | 24.6 | 24.8 | | | | | | | | | | | | | |
| 9 | | 7 | 2019-11-23 | 14:59:53 | 3 | 25 | 25 | 24.7 | 24. | 5 24. | 7 24 | 1.5 | 24.5 | 24.8 | | | | | | | | | | | | | _ |
| 10 | | 8 | 2019-11-23 | 14:59:53 | 2 | 25 | 25 | 24.6 | 24. | 4 24. | 6 24 | 1.6 | 24.6 | 24.7 | | | | | | | | | | | | | _ |
| 11 | | 9 | 2019-11-23 | 14:59:5 | 1 24 | . 8 | 24.9 | 24.6 | 24. | 4 24. | 6 2 | 1.6 | 24.6 | 24.7 | | | | | | | | | | | | | _ |
| 12 | | 10 | 2019-11-23 | 14:59:50 | 0 24 | E. 8 | 24.9 | 24.6 | 24. | 4 24. | 6 24 | 1.6 | 24.6 | 24.7 | | | | | | | | | | | | | _ |
| 13 | | 12 | 2019-11-23 | 14:09:4 | 9 29 | 6.8 | 24.9 | 24.6 | 24. | 4 24. c 24 | 6 2 | 1.0 | 24.0 | 24.1 | | | | | | | | | | | | | _ |
| 16 | | 12 | 2019 11 23 | 14.50.4 | 7 2 | 0 | 24. 5 | 24.0 | 24 | 6 24 | 7 2 | | 24.0 | 24.1 | | | | | | | | | | | | | |
| 16 | | 14 | 2019-11-23 | 14.59.4 | 6 24 | 1.9 | 24.9 | 24.6 | 24. | 6 24 | 7 2 | 1.7 | 24.0 | 24.8 | | | | | | | | | | | | | |
| 17 | | 15 | 2019-11-23 | 14:59:4 | 5 24 | 1.9 | 24.9 | 24.7 | 24. | 6 24. | 7 2 | 1.7 | 24.7 | 24.8 | | | | | | | | | | | | | |
| 18 | | 16 | 2019-11-23 | 14:59:4 | 4 | 25 | 24.9 | 24.7 | 24. | 7 24. | 7 24 | 1.7 | 24.7 | 24.8 | | | | | | | | | | | | | (72 |
| 19 | | 17 | 2019-11-23 | 14:59:43 | 3 | 25 | 25 | 24.8 | 24. | 7 24. | 7 24 | 1.7 | 24.8 | 24.9 | | | | | | | | | | | | | |
| 20 | | 18 | 2019-11-23 | 14:59:43 | 2 | 25 | 25 | 24.8 | 24. | 7 24. | 7 24 | 1.7 | 24.8 | 24.9 | | | | | | | | | | | | | |
| 21 | | 19 | 2019-11-23 | 14:59:43 | 1 | 25 | 24.9 | 24.8 | 24. | 7 24. | 8 24 | 1.7 | 24.8 | 24.9 | | | | | | | | | | | | | _ |
| 22 | | 20 | 2019-11-23 | 14:59:40 | 0 | 25 | 24.9 | 24.7 | 24. | 7 24. | 8 24 | ŧ. 7 | 24.8 | 24.9 | | | | | | | | | | | | | _ |
| 23 | | 21 | 2019-11-23 | 14:59:3 | 9 | 25 | 25 | 24.8 | 24. | 7 24. | 8 24 | 1.7 | 24.8 | 24.9 | | | | | | | | | | | | | _ |
| 24 | | 22 | 2019-11-23 | 14:59:3 | 8 | 25 | 25 | 24.8 | 24. | 7 24. | 7 2 | 1.7 | 24.7 | 24.8 | | | | | | | | | | | | | _ |
| 20 | | 24 | 2019-11-23 | 14:59:5 | 6 2/ | 0 | 25 | 24.0 | 24. | 4 24. | 6 2 | 1.0 | 24.9 | 24.1 | | | | | | | | | | | | | |
| 20 | | 25 | 2019-11-23 | 14.59.3 | 5 20 | 1.9 | 24.9 | 24.0 | 24. | 5 24 | 5 2 | 1.5 | 24.6 | 24.7 | | | | | | | | | | | | | |
| 28 | | 26 | 2019-11-23 | 14.59.3 | 4 20 | L R | 24.8 | 24.6 | 24 | 4 24 | 6 2 | 1.6 | 24.6 | 24.7 | | | | | | | | | | | | | |
| 29 | | 27 | 2019-11-23 | 14:59:3 | 3 24 | . 8 | 24.8 | 24.6 | 24. | 4 24. | 6 24 | 1.6 | 24.4 | 24.7 | | | | | | | | | | | | | |
| 30 | | 28 | 2019-11-23 | 14:59:33 | 2 24 | L. 8 | 24.8 | 24.6 | 24. | 6 24. | 6 24 | 1.4 | 24.6 | 24.7 | | | | | | | | | | | | | |
| 31 | | 29 | 2019-11-23 | 14:59:33 | 1 24 | Ł. 8 | 24.8 | 24.6 | 24. | 6 24. | 6 24 | 1.7 | 24.7 | 24.8 | | | | | | | | | | | | | |
| 32 | | 30 | 2019-11-23 | 14:59:30 | 0 | 25 | 25 | 24.8 | 24. | 5 24. | 7 24 | 1.7 | 24.7 | 24.8 | | | | | | | | | | | | | |
| 33 | | 31 | 2019-11-23 | 14:59:2 | 9 24 | E. 9 | 24.9 | 24.7 | 24. | 6 24. | 7 24 | 1.6 | 24.6 | 24.8 | | | | | | | | | | | | | _ |
| 34 | | 32 | 2019-11-23 | 14:59:20 | 8 24 | E. 9 | 24.9 | 24.8 | 24. | 6 24. | 2 | t. 7 | 24.7 | 24.8 | | | | | | | | | | | | | _ |
| 35 | | 33 | 2019-11-23 | 14:09:2 | (e | 20 | 20 | 24.8 | 24. | 7 24. | 0 2 | t. (| 24.7 | 24.8 | | | | | | | | | | | | | |
| 27 | | 310 | 2019-11-23 | 14:59:28 | 5 9/ | 23 | 25 | 24.8 | 24. | - 24. c 24 | 7 2 | . / | 24.7 | 24.8 | | | | | | | | | | | | | |
| 38 | | 36 | 2019-11-23 | 14:59:2 | 4 24 | 1.9 | 24.0 24.8 | 24.6 | 24. | 6 24. | 6 2 | 1.6 | 24.6 | 24.8 | | | | | | | | | | | | | |
| 39 | | 37 | 2019-11-23 | 14:59:2 | 3 24 | . 9 | 24.8 | 24.6 | 24. | 4 24. | 6 2 | 1.4 | 24.6 | 24.7 | | | | | | | | | | | | | |
| 40 | | 38 | 2019-11-23 | 14:59:23 | 2 24 | 1.9 | 24.9 | 24.6 | 24. | 4 24. | 6 24 | 1.6 | 24.6 | 24.7 | | | | | | | | | | | | | |
| 41 | | 39 | 2019-11-23 | 14:59:23 | 1 24 | L. 9 | 24.8 | 24.6 | 24. | 4 24. | 6 24 | 1.6 | 24.6 | 24.8 | | | | | | | | | | | | | |
| 42 | | 40 | 2019-11-23 | 14:59:20 | 0 | 25 | 25 | 24.8 | 24. | 7 24. | 8 24 | 1.7 | 24.7 | 24.8 | | | | | | | | | | | | | |
| 43 | N 20101 | 41 | 2019-11-23 | 14.59.1 | 9 | 25 | 25 | 24 R | 24 | 7 24 | 8 24 | 17 | 74 7 | 24 R | | 114 | _ | | - | | | | | _ | _ | | |
| data | 20181 | 100(1) | | _ | | | | | | | | | | | | | | | | | | | 1 | and see one | 0001 | | |

U the page on the PC end after the disk export, save the format suffix as *. CSV







Each instrument will deliver U plates when it leaves the factory. The communication software is saved in the U disk, first open and install the driver software in the U disk, open the Yongpeng temperature recorder file in the software, select the correct COM port, and show the communication connection success at the lower left of the main interface of the software.

Computer software interface provides a wealth of display and analysis of data functions, can display file list, curve list, data list, real-time temperature list. also can print the graph shape.

1. find the driver software in the U disk (after installing the driver software, you can communicate with the instrument through the USB communication line in real time

| 名称 | 修改日期 | 类型 | 大小 |
|-----------------------------|---------------------------------|------------------|-----------|
| 길 驱动软件 | 2019-11-25 16:03 | 文件夹 | |
| 📙 永鵬温度记录仪 | 2019-11-23 17:19 | 文件夹 | |
| 🔁 20191123 | 2004-01-01 0:00 | Microsoft Office | 1,431 KB |
| \rm dotNetFx40_Full_x86_x64 | 2019- <mark>11-22 14:1</mark> 6 | 应用程序 | 49,268 KB |

Software operating instructions

| 名称 | 修改日期 | 类型 | 大小 |
|--------------------|------------------|--------------|--------|
| MACOSX | 2019-11-25 16:03 | 文件夹 | |
| 📄 ch34xInstall.pkg | 2013-03-18 11:53 | PKG 文件 | 41 KB |
| 🛃 CH341SER | 2013-08-11 20:57 | 应用程序 | 228 KB |
| CH341SER | 2013-08-11 21:05 | 压缩(zipped)文件 | 179 KB |
| | 2013-08-11 20:57 | 压缩(zipped)文件 | 41 KB |



Follow the above steps to install the driver software first, show that after the installation is completed, press the OK button to exit the page.









2. click on the Yongpeng temperature recorder to select the application below, you can also right-click to send the desktop shortcut, after the operation can directly open the software from the desktop.

| System.Data.SQLite.dll | 2017-09-19 15:18 | 应用程序扩展 | 1,387 KB |
|------------------------|------------------|-----------|----------|
| TempLogger | 2019-11-23 17:09 | 应用程序 | 353 KB |
| TempLogger.exe.config | 2019-08-31 14:50 | CONFIG 文件 | 1 KB |
| TempLogger.pdb | 2019-11-23 17:09 | PDB 文件 | 144 KB |

Access to the main page of the software

| ▶ 永鬱 温度巡检仪采集系统 | _ □ x |
|--|--|
| 文件 》 测试 兰前曲线组:第一组 🔹 实时曲线 实时数据 系统参数设置 历史记录 | 语言▼ |
| 序号 测试时间 通道1 通道2 通道4 通道5 通道6 通道7 通道8 通道9 通道10 通道11 通道12 通道13 通道14 | 通道15 通道16 通 |
| * | ▼ 通道11123456 ♥ 通道2222 ● 通道3333 ● 通道4 ● 通道5 ♥ 通道6 ▼ 通道7 ♥ 通道7 ♥ 通道8 |
| 请先设置端口后再启动则试 | |



Data recorded with a U disk can be imported directly into the software. file suffix * imported. CSV

Can also enter, system parameter settings - port settings set COM port and the instrument directly connected to transport real-time measurement values.









numerical values and curve changes can be visualized.



| ß | +线分组 ▲ | 通 ▲ | 通道名称 | 颜色 | 报警下下限 | 报警下限 | 报警上限 | 报警上上限 | 校正值 | 通道ID: | 1 |
|---|--------|-----|-----------------|----|-------|------|------|-------|-------|-------|-----------|
| | 曲线分组: | 1 | | | | | | | | 通道之称: | 通道1 |
| | 1 | 1 | 通道1 | | 8 | 10 | 500 | 1000 | -20.5 | | |
| | 1 | 2 | 通道2 | | 0 | 0 | 0 | 20 | 0 | 田线颜色: | Silver |
| | 1 | 3 | 通道333 | | 2 | 7 | 6 | 30 | 5 | 下下限: | 8 |
| | 1 | 4 | 通道 4 | | 0 | 0 | 300 | 300 | 0 | 报警下限: | 10 |
| | 1 | 5 | 通道5 | | 0 | 0 | 500 | 500 | 0 | 报警上限: | 500 |
| | 1 | 6 | 通道6 | | 0 | 0 | 500 | 500 | 0 | | 1000 |
| | 1 | 7 | 通道7 | | 0 | 0 | 500 | 500 | 0 | LTbK: | 1000 |
| | 1 | 8 | 通道8 | | 0 | 0 | 500 | 500 | 0 | 校正值: | -20.5 |
| | 曲线分组: | 2 | | | | | | | | (P) | 定り条約 |
| | 曲线分组: | 3 | | | | | | | | | -37(22/32 |
| | 曲线分组: | 4 | | | | | | | | | |
| | 曲线分组: | 5 | | | | | | | | 读下下限 | 读下附 |
| | 曲线分组: | 6 | | | | | | | | | |
| | 曲线分组: | 7 | | | | | | | | 读上上限 | 读上附 |
| | 曲线分组: | 8 | | | | | | | | | |

You can set the channel name, curve color, alarm parameters and correction values, set up

| | | 第一组 🔻 | 起始时间: | 2019-10 | 0-01 00:00 | • 00: | 1 | 此时间: | 2020-01-0 | 01 00:00:0 | • 0 | 🦈 FR | 脉数据 | 1 | 删除选中E | 日期数据 | |
|----|----|---------------------|-------|---------|------------|-------|------|------|-----------|------------|-----|-------------|------|------|-------|------|-----|
| 序号 | | 测试时间 | 通道1 | 通道2 | 通道333 | 通道4 | 通道5 | 通道6 | 通道7 | 通道8 | 通道9 | <u>通道10</u> | 通道11 | 通道12 | 通道13 | 通道14 | 通道1 |
| • | 33 | 2019-10-01 19:49:00 | 28.2 | 28.200 | 28.200 | 28.2 | 28.2 | 28.2 | 28.2 | 28.2 | 0 | 0 | 0 | 0 | 0 | (|) |
| | 34 | 2019-10-02 19:49:00 | 28.2 | 28.200 | 28.200 | 28.2 | 28.2 | 28.2 | 28.2 | 28.2 | 0 | 0 | 0 | 0 | 0 | (|) |
| | 35 | 2019-10-03 19:49:00 | 28.2 | 28.200 | 28.200 | 28.2 | 28.2 | 28.2 | 28.2 | 28.2 | 0 | 0 | 0 | 0 | 0 | C |) |
| | 36 | 2019-10-04 19:49:00 | 28.2 | 28.200 | 28.200 | 28.2 | 28.2 | 28.2 | 28.2 | 28.2 | 0 | 0 | 0 | 0 | 0 | (|) |
| | 37 | 2019-10-05 19:49:00 | 28.2 | 28.200 | 28.200 | 28.2 | 28.2 | 28.2 | 28.2 | 28.2 | 0 | 0 | 0 | 0 | 0 | (|) |
| | 38 | 2019-10-06 19:49:00 | 28.2 | 28.200 | 28.200 | 28.2 | 28.2 | 28.2 | 28.2 | 28.2 | 0 | 0 | 0 | 0 | 0 | (|) |
| | 39 | 2019-10-07 19:49:00 | 28.2 | 28.200 | 28.200 | 28.2 | 28.2 | 28.2 | 28.2 | 28.2 | 0 | 0 | 0 | 0 | 0 | (|) |
| | 40 | 2019-10-08 19:49:00 | 28.2 | 28.200 | 28.200 | 28.2 | 28.2 | 28.2 | 28.2 | 28.2 | 0 | 0 | 0 | 0 | 0 | (|) |
| | 41 | 2019-10-09 19:49:00 | 28.2 | 28.200 | 28.200 | 28.2 | 28.2 | 28.2 | 28.2 | 28.2 | 0 | 0 | 0 | 0 | 0 | (|) |
| | 42 | 2019-10-10 19:49:00 | 28.2 | 28.200 | 28.200 | 28.2 | 28.2 | 28.2 | 28.2 | 28.2 | 0 | 0 | 0 | 0 | 0 | (|) |
| | 43 | 2019-10-11 19:49:00 | 28.2 | 28,200 | 28,200 | 28.2 | 28.2 | 28.2 | 28.2 | 28.2 | 0 | 0 | 0 | 0 | 0 | (|) |

Real-time files can be saved to the database, you can look through the database of historical data.







Verification conditions

| project | Reference value | Reference value or | | | |
|--|-------------------|--------------------|--|--|--|
| project | or range | range | | | |
| ambient temperature $^{\circ}\!\mathrm{C}$ | 20 | ± 5 | | | |
| ambient humidity%RH | 45~75 | | | | |
| atmosKPa | 86~106 | | | | |
| AC supply voltageV | 220 | ±2% | | | |
| AC supply voltageHz | 50 | ±1% | | | |
| Ac power supply | Ac power supply | β =0.05 | | | |
| waveform | waveform | | | | |
| External magnetic field | Should be availed | | | | |
| interference | Should be avoided | | | | |
| sunniness | GOOD | | | | |
| vontilato | Avoid direct | | | | |
| ventilate | exposure | | | | |







guarantee

The instrument shall be guaranteed for two years from the date of purchase. If the instrument is damaged by improper operation of the user during the warranty period, the maintenance fee and the expenses caused by the maintenance shall be borne by the user, and the instrument shall be responsible for the life-long paid after-sale.

The user shall not open the instrument housing without the written consent of the Company, which will affect the warranty of the instrument.

The instrument maintenance should be carried out by the professional and technical personnel authorized by our company; please do not change the internal components of the instrument without authorization when repairing, after the instrument maintenance, it is necessary to re-measure the calibration, so as not to affect the test accuracy. If the user blindly repairs, changes the instrument parts and causes the instrument damage, does not belong to the warranty scope, the user should bear the maintenance expense.









container loading list

One mainframe

A power cord

One manual

One certificate

One warranty card

One thermocouple line per channel



