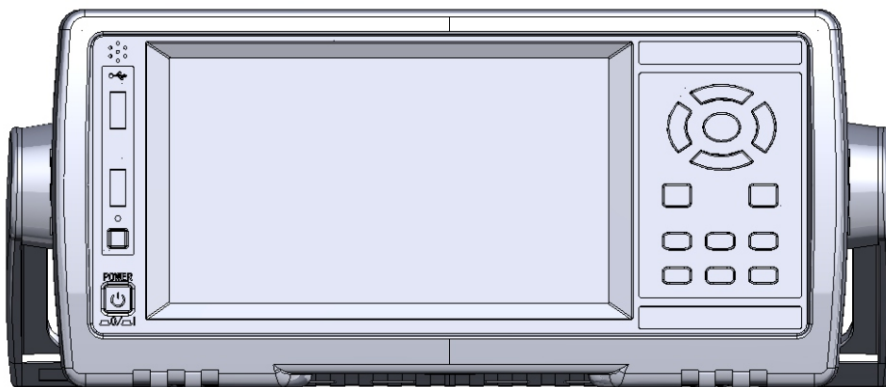


Multi-channel data recorder

WT201

User Manual_{V1.4}



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0 Preface

Under normal use of the instrument, it can be warranted free of charge within 2 year from the date of purchase, and we can provide paid maintenance for abnormal use and beyond the warranty period. Instrument maintenance should be carried out by our authorized technicians.

You can learn about our latest improvement news through our official public number or our authorized platform.

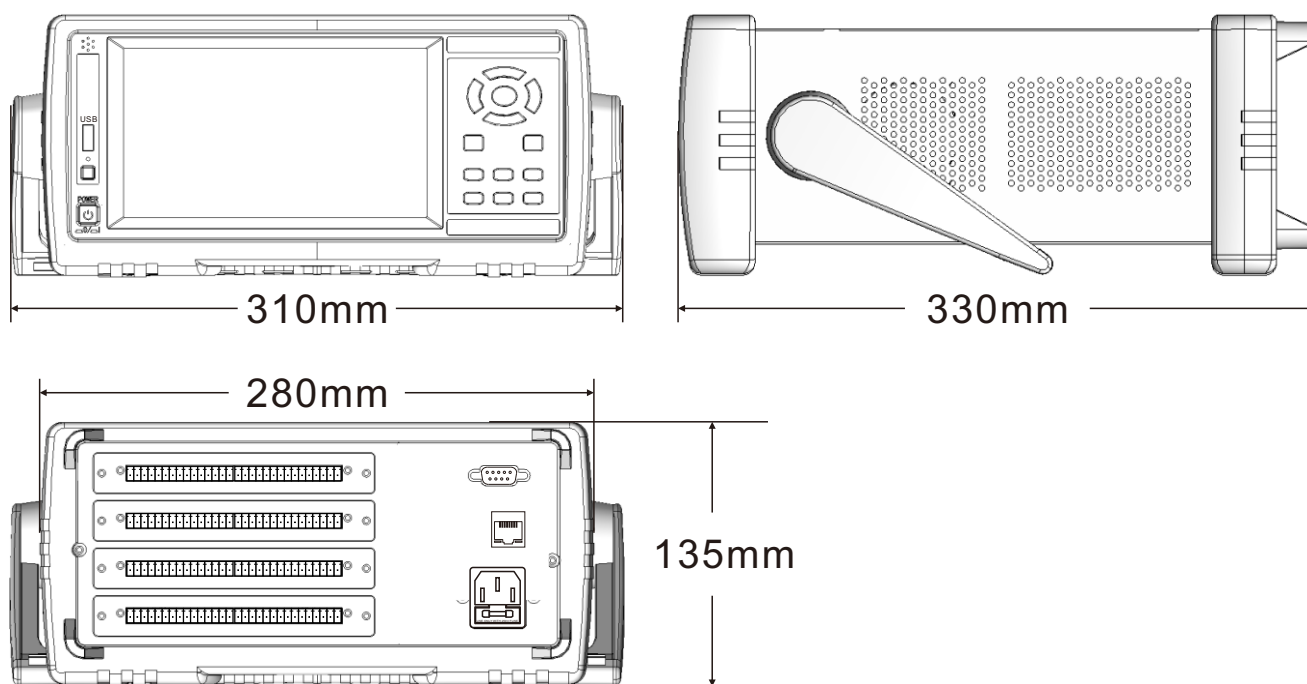
Sales service is available by contacting your local dealer.

Technical Indicators

Screen	7' HD IPS touch screen, 800*480 resolution
Modules	Each mainframe supports 4 measurement boards (10 channels), 20 measurement modules (10 channels)
Display	File, Value List (Statistical List), Real-time Curve (Recorded Curve), Real-time Bar Graph, Real-time Alarm (Historical Alarm), System Settings
Statisticians	Real-time value, maximum value, minimum value, average value, peak-to-peak value
TC	Main Unit, External Module ; K , J , E , T , N , S , R , B ; Resolution: 0. 01℃
	0.2℃+2digits(Without TC), cold-end compensation accuracy:0.5℃
RTD	External Module ; Pt100 , Pt1000 , Cu50 ; Resolution: 0. 01℃
	0.1℃+2digits
Measurement range	TC : -200~1820℃ (based on TC type) , RTD : -200~600℃
Isolation voltage	350V AC/DC
Sampling rate	50mS sampling per channel
Recording interval	Minimum 0.1S recording interval, minimum interval varies with the number of channels switched on / ≥50mS per channel (H:M:S:mS)
Calibrate	Independent calibration per channel or cold-end calibration
Document analysis	Files can be viewed for historical curves and analysed for any time period
File Export	Export any file to USB flash drive or transfer to internal drive
Alarm	Upper limit, lower limit alarm settings, and alarm history (buzzer sounds, can be set to mute)
Interface	USB/RS485/RS232/LAN as standard, PC software as standard
Pre-installed sensors	1 x 2m type K thermocouple per channel as standard
Custom names	Customisable names for each channel, with the ability to export to EXCEL
Power supply	AC86V~265V±10%, 50Hz/60Hz,<10W

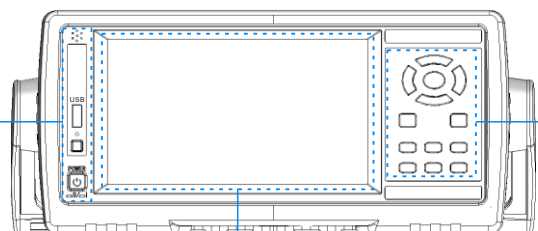
1 Instrument Structure

□1-1 Shape and size



□1-2 Hardware Functions

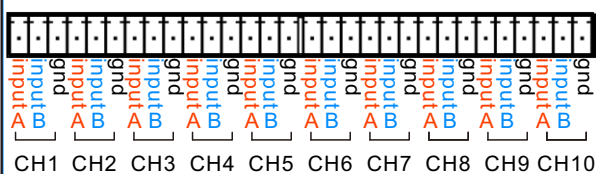
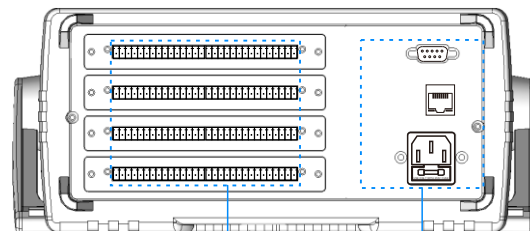
■ Ahead



Touchscreen

Note: MUTE key short press for screenshot.
Long press is for lock screen.
Touch function is off after lock screen.

■ Backside



Buzzer

USB

Record Indicator
Record key

Power key

Enter

Left

Setup

List

File

Up

Enter

ESC

Curve

Bar

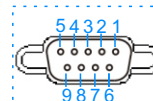
Lock Screen/Screenshot

Right

Down

Return

Alarm



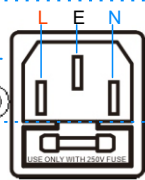
RS485/RS232
485-A:Pin8
485-B:Pin9
232-TX:Pin2
232-RX:Pin3
232-GND:Pin5



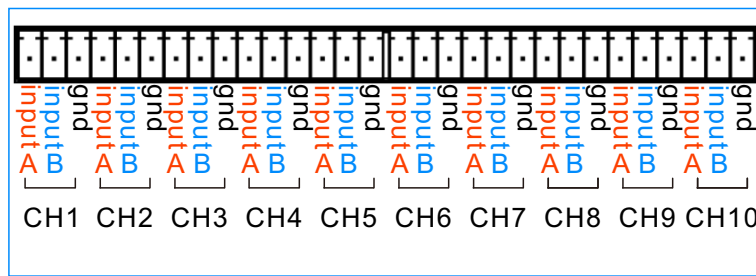
LAN□

Power cord connector

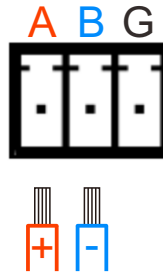
Fuse mounting port



□1-3 Wiring Instructions



Thermocouples



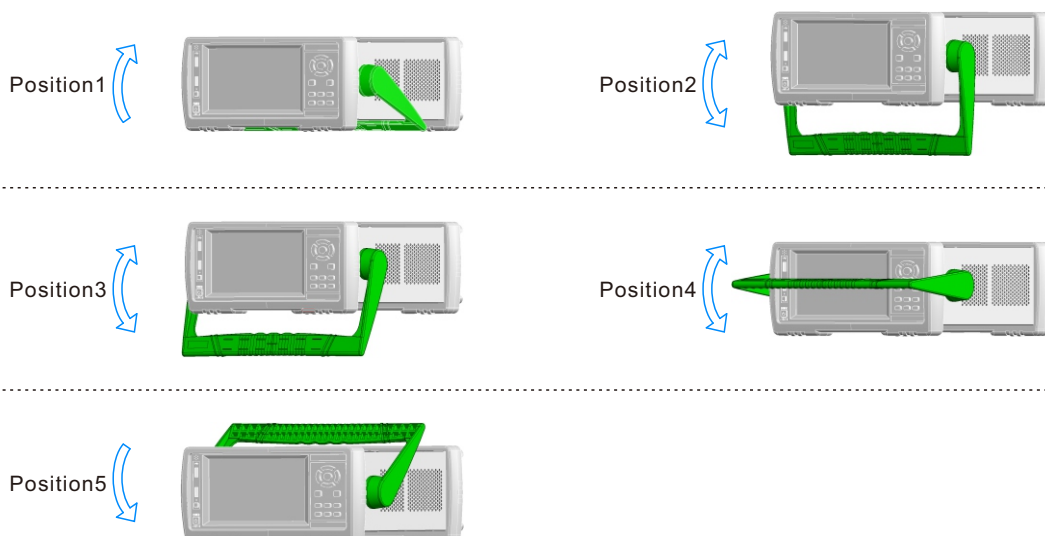
□1-4 Handle

The handle can be rotated by pulling both ends of the handle outward until the locating pin leaves the limit hole.

After the handle positioning pin is rotated to the limit hole, the handle can be fixed by pressing the handle ends inwards.



The handle has a total of 5 fixing positions.

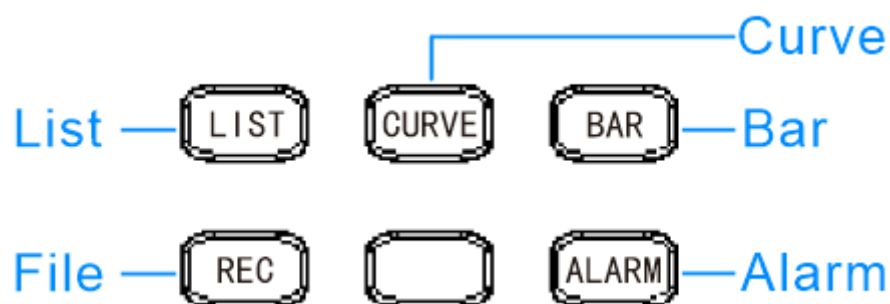


2 Function

□2-1 Synopsis

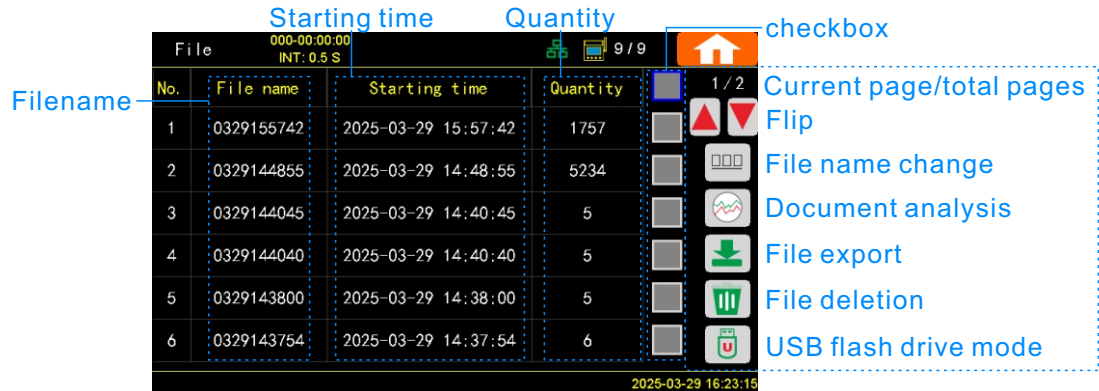
There are 5 function lists in the instrument, they are:

1. File list. The file list displays recorded file information - file name, record start time and number of recorded data groups, and contains a total of five functions: file name modification, data analysis, file export, file deletion and U-disk mode;
2. Digital list. There are three kinds of lists: single measurement board list, four measurement board list and data statistics list. The single-board list displays the real-time measurement data of the current board. The four-measurement board list displays the real-time measurement data of four measurement boards at the same time. Data statistics list displays the instantaneous value, maximum value, minimum value, average value, peak value and unit of the current measurement board, and the list has a zero function to reset the initial data;
3. Curve list. Curve list displays real-time curves, can manually/automatically modify the upper and lower limits of the vertical axis, zoom in/out to display the curves by a certain magnification, as well as move up/down to display the curves;
4. Column list. Column list displays the real-time data histogram, can manually modify the upper and lower limits of the vertical axis, equipped with temperature rise function;
5. Alarm list. Alarm list has two lists: current alarm list and history alarm list. The current alarm list displays four information: alarm source, type, threshold and start time. The history alarm list displays five information: alarm source, type, threshold, start time and cancellation time; The following figure shows the corresponding shortcut keys of each list.



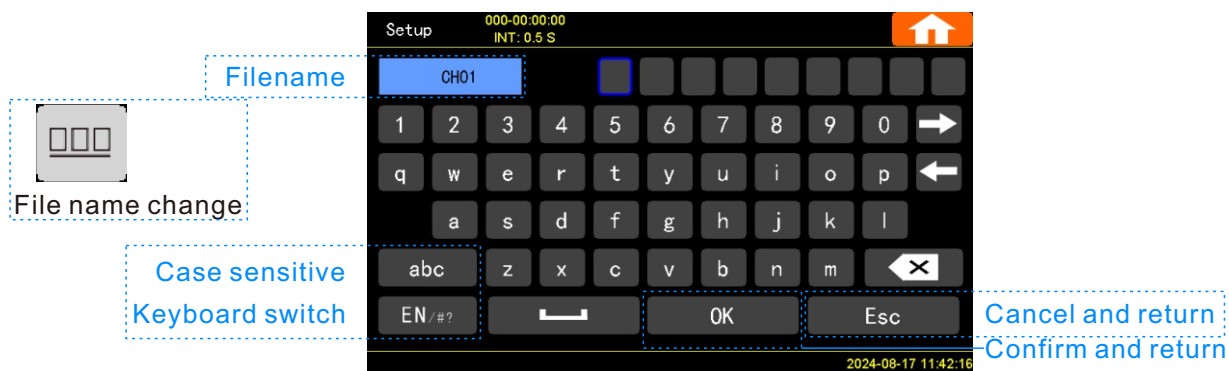
□2-2 File

■ Interfaces



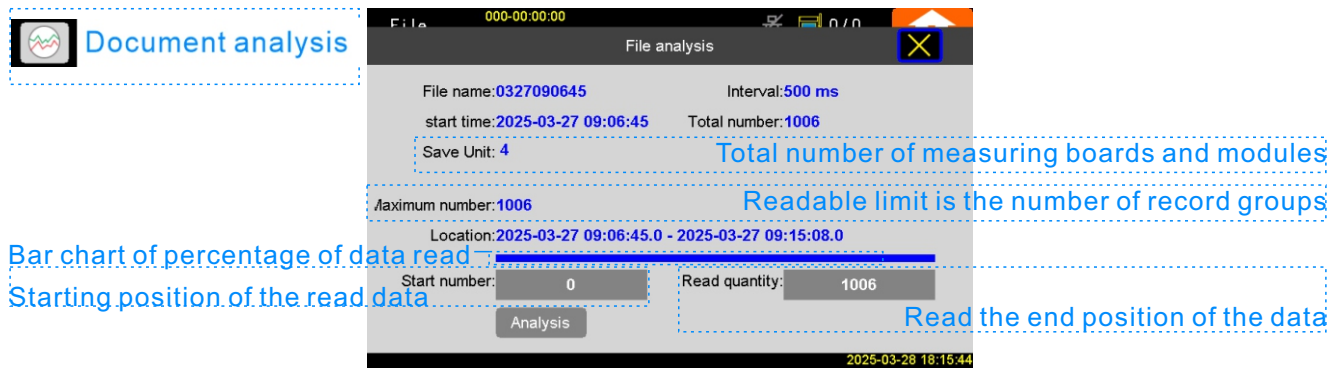
■ File name change

Select the file and click on the button to enter the modification page.

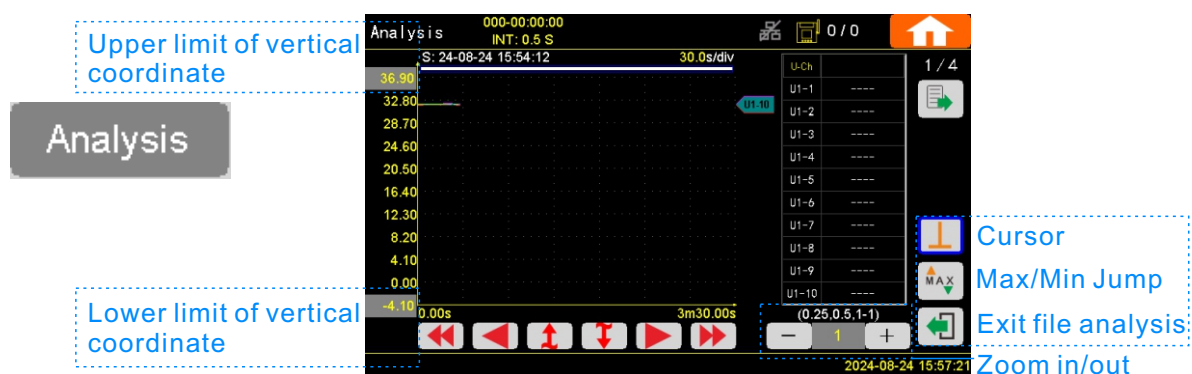


■ Document analysis

Select the file and click the button to open the File Analysis checkbox.



After setting the data interval for analysis, enter the analysis page. In the page, you can click the vertical coordinate upper/lower limit to modify, zoom in/out the curve horizontally, call out the cursor to read the curve value, and quickly jump to the maximum/minimum value.



Click on the button to bring up the cursor, and use the move button below to move the cursor position and thus read the value.


Cursor



horizontal coordinate of the cursor

Measured value at cursor position

Cursor line

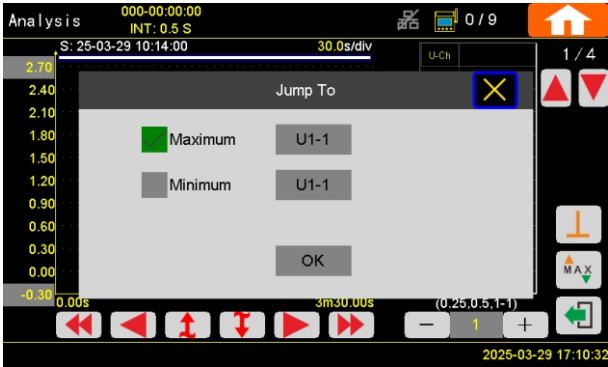
Cursor fast/slow left

Curve Up/Down Shift

Cursor slow/fast right

Click the Max/Min button to bring up the selection interface, select the jump value and channel, then press OK to jump.

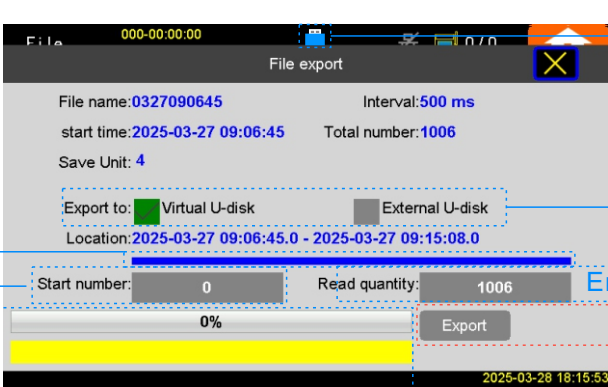

Max/Min



■ File Export

Click the File Export button to enter the File Export checkbox. Select the data interval and the location of the exported file (internal storage or external USB stick), click the Start Copy button to start copying the file, and when the progress reaches 100%, the file export will be completed.


File export



External USB flash drive flag bit

Export position

End position of exported data

Start exporting keys

Data export progress bar

Bar chart of percentage of exported data

Starting position of the exported data

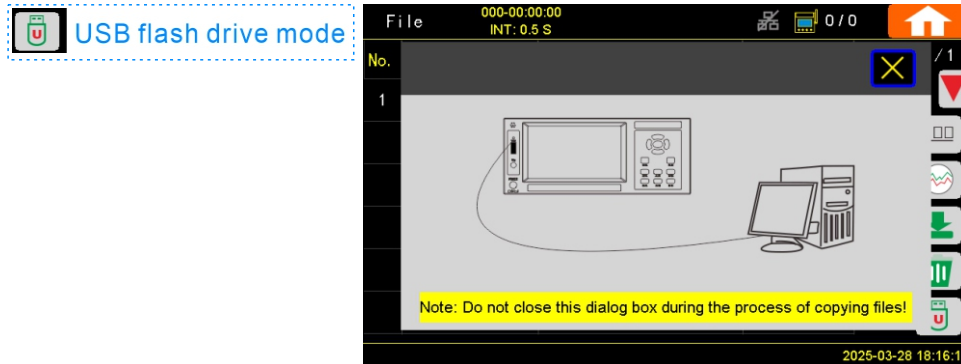
■ File deletion

After selecting the file, click the Delete button to bring up a confirmation box, confirm and complete the deletion.


File deletion

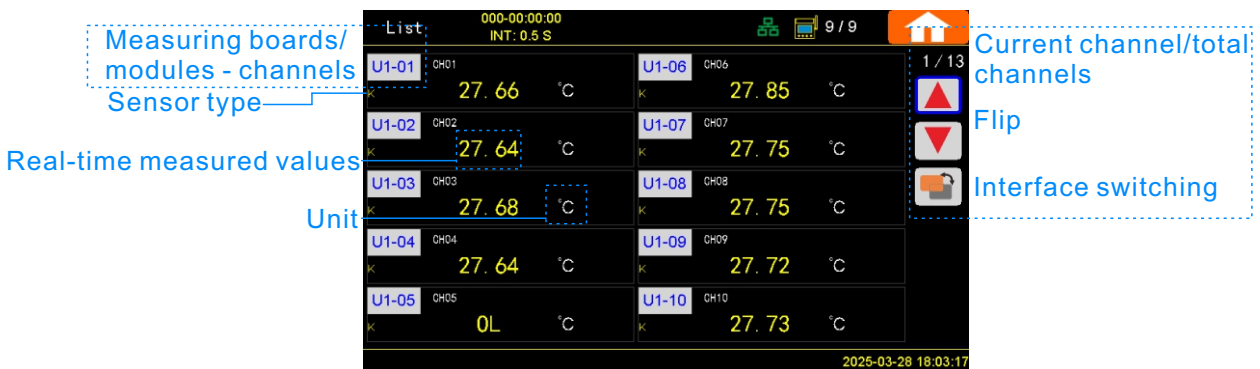
■ USB flash drive mode

Click the USB flash drive mode button to enter the USB flash drive mode and pop up a prompt box. After entering this mode, you can use the USB cable to connect to the computer to read the internal storage files of the instrument. After closing the prompt box, the instrument exits the USB flash drive mode.

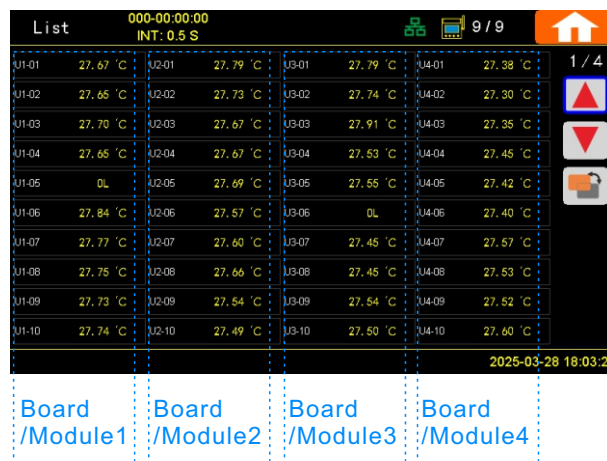


□ 2-3 List

The Single Measurement Board list displays real-time measurement data, sensor type and units for the 10 sensors of the current measurement board/module.



The Quad Measurement Board List displays measurement data and units for a total of 40 sensors from 4 measurement boards/modules.



The statistics list displays the statistical values of the measured data from data zero to real time for individual measurement boards or modules. Data zeroing is performed when the instrument is switched on, when data logging is started and when the Zero key is pressed.

U-Ch	Inst	Max	Min	Ave	P-P	Unit
U1-01	27.66	27.72	27.53	27.66	0.19	°C
U1-02	27.64	27.71	27.50	27.64	0.21	°C
U1-03	27.69	27.76	27.50	27.69	0.26	°C
U1-04	27.63	27.70	27.49	27.64	0.21	°C
U1-05	OL	0.00	0.00	0.00	0.00	°C
U1-06	27.85	27.86	27.75	27.85	0.11	°C
U1-07	27.75	27.87	27.60	27.75	0.27	°C
U1-08	27.71	27.79	27.61	27.72	0.18	°C
U1-09	27.70	27.83	27.57	27.70	0.26	°C
U1-10	27.71	27.78	27.60	27.72	0.18	°C

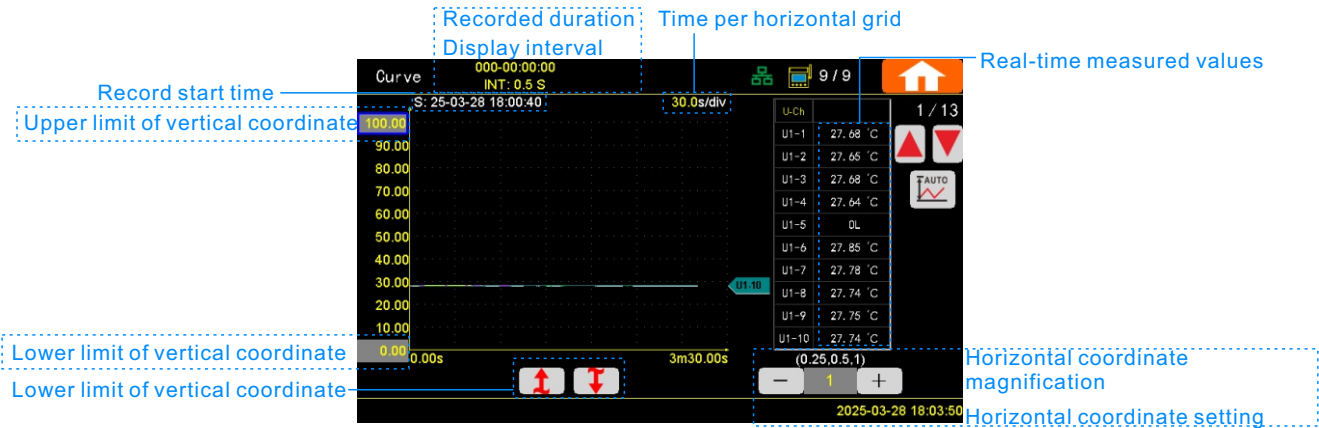
00

Data clear key

2-4 Curve

on-line curve

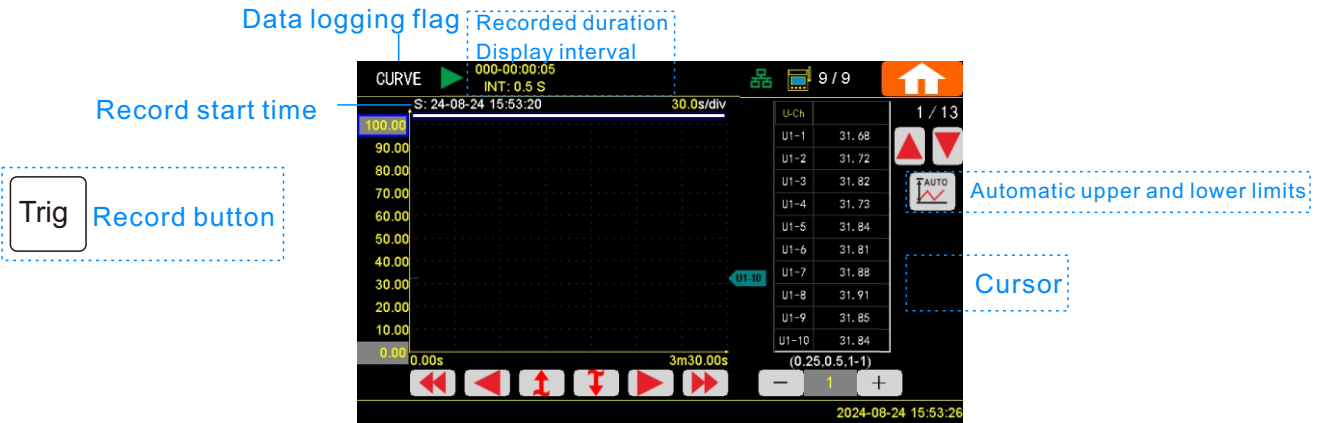
The data recorded during the period from data zero to real time is displayed in the form of a curve. The curve is continuously updated with real-time data.



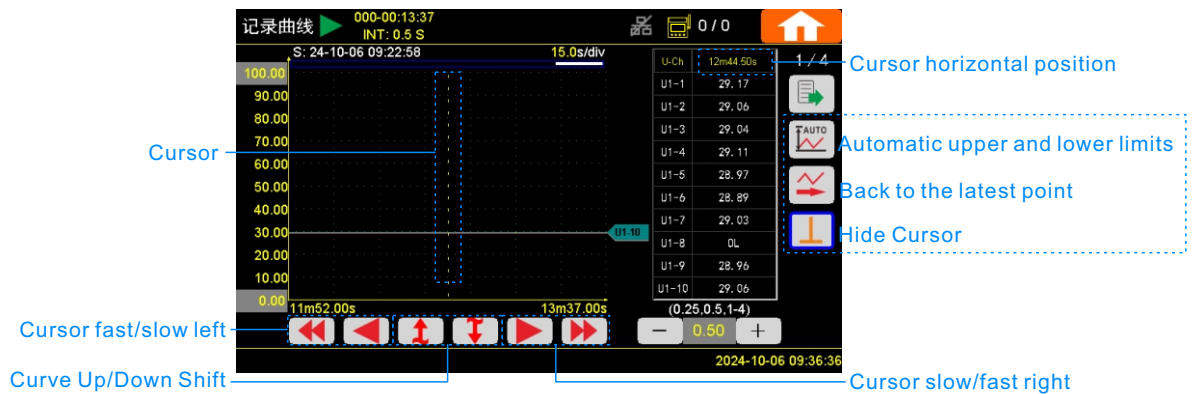
The curves can be zoomed in and out horizontally with the +/- keys, or you can click on the multiplier to modify it quickly.

Recording curve

When the instrument enters the recording mode, the curve page enters the recording curve interface from the real-time curve interface.

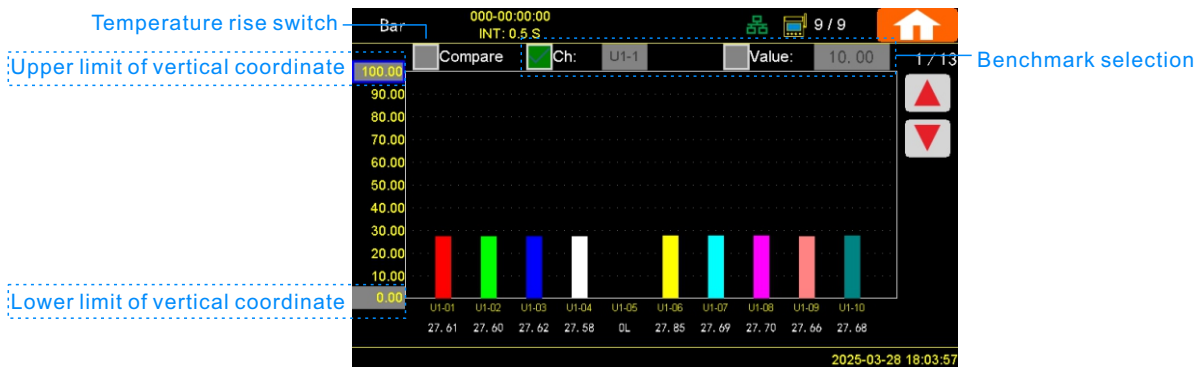


Click on the cursor button to show the cursor in the axes and click again to hide the cursor. Move the cursor with the left/right shift keys. Click on Auto Coordinate to automatically set the upper and lower limits. Click on the cursor button to show the cursor in the axes and click again to hide the cursor. Move the cursor with the left/right shift keys. Click on Auto Coordinate to automatically set the upper and lower limits.

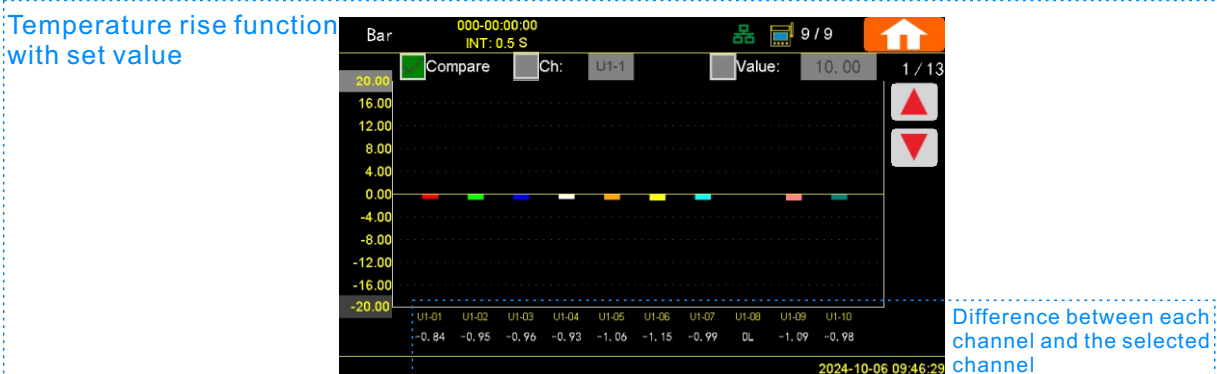


□2-5 Bar

The data corresponding to the bar graph is real-time data. You can turn on the temperature rise function on this screen.



When the temperature rise function is switched on, the instrument makes a comparison based on the selected benchmark. The benchmarks are available in both channel and set values.



□2-6 Alarm

The alarm function requires the switch to be turned on in the alarm setting first (see page 13 Alarm Setting for operation details). Current Alarm When the measured data exceeds the upper limit or lower limit, the alarm logo is always lit, and the alarm information is displayed in the current alarm list and the over-limit channel is highlighted in the numeric list.

Alarm marking

Alarm information

Channel Highlighting

Alarm

000-00:00:00
INT: 0.5 S

 0 / 0



No.	Src	Type	Set	Start time
1	U1-01	H	32.00	24-10-11 13:57:06

2024-10-11 13:57:08

List

000-00:00:00
INT: 1 S

 0 / 0



U1-01	CH01	U1-06	CH06
35.33	°C	29.60	°C
U1-02	CH02	U1-07	CH07
29.43	°C	29.65	°C
U1-03	CH03	U1-08	CH08
29.55	°C	29.68	°C
U1-04	CH04	U1-09	CH09
29.55	°C	29.72	°C
U1-05	CH05	U1-10	CH10
29.59	°C	29.73	°C

2000-01-01 20:56:16

When the alarm is cancelled, the current alarm list clears the alarm information of the related channel, and you can switch to the historical alarm to view the alarm.

Latest Alarm Information

Alarm

000-00:00:00
INT: 0.5 S

 0 / 0



No.	Src	Type	Set	Start time

2024-10-11 13:57:01

Alarm

000-00:00:00
INT: 0.5 S

 0 / 0



No.	Src	Type	Set	Start time	Release time
1	U1-01	H	32.00	24-10-11 13:57:06	24-10-11 13:57:19
2	U1-01	H	32.00	24-10-11 13:56:41	24-10-11 13:56:57
3	U1-01	H	30.00	24-10-11 13:56:15	24-10-11 13:56:22

2024-10-11 13:57:24

3 Setup

□3-1 Setup Introduction

System settings have unit settings, conversion settings, display settings, record settings, alarm settings, communication settings and system settings a total of seven settings page.

1. Unit Setting. The unit setting can browse the connection status of the measurement board and module, and manage the registration/de-registration of the module (Note: the measurement module needs to be successfully registered in the instrument before it can be connected to the instrument). The Unit Setup page also allows you to set the on/off, sub type (thermocouple type) and filter coefficients for individual channels.

2. Conversion Settings. Conversion settings can set the conversion switch, conversion slope and conversion offset of a single channel. The conversion formula is:

$$\text{Display value} = \text{conversion slope} \times \text{measured value} + \text{conversion offset}$$

3.Display settings. Display settings can customize the name and colour of each channel.

4.Record settings. Record settings can set the data recording interval and recording stop mode, can browse the remaining recording time. There are two types of record stopping methods: manual stopping requires manually pressing the record button to stop recording, and automatic stopping is to stop recording when the recording time reaches the set time.

5.Alarm settings. Alarm settings can set the alarm switch, alarm sound, single-channel alarm switch, alarm upper and lower limits and alarm delay.

6.Communication settings. Communication settings can set the LAN connection and 232/485 address.

7.System settings. There are four sub-pages for system setting: basic setting, time setting, initialisation selection and instrument information. Basic settings can set the unit of display data, device language, screen saver switch and activation time, backlight brightness, screen saver brightness and key sound switch. The initialisation function allows you to choose to clear all record files, alarm records and screenshot files, and also restores the system default settings.

The Setup page can be switched to the main page by pressing the Setup button, and to the sub-page by pressing the Exit button (ESC key).

Sub-page  —Return

Main page  —Setup

Unit-> Conversion-> Display->

Record-> Alarm-> Communication->

System-> Unit



3-2 Unit Settings

Module Setup manages module registration status and modifies module measurement settings (module connections can be found on page 20 - Appendix B Instrument Connection Schematic).

Setup000-00:00:00
INT: 0.5 S

9 / 9

Connectivity Module /Registration Module

Unit	Convert	Display	Record	Alarm	Com	System
Info	No.	Model	SN	Unit Str	Speed	Sta
Host	U1	---	---	---	500 ms	✓
Module	U2	---	---	---	500 ms	✓
	U3	---	---	---	500 ms	✓
	U4	---	---	---	500 ms	✓
	R1	WT_M01	202407010021	20240701	500 ms	📶
	R2	WT_M01	202407080032	20240708	500 ms	📶
	R3	WT_M01	202407010022	20240701	500 ms	📶
	R4	WT_M01	202407010023	20240701	500 ms	📶
	R5	WT_M01	202406280007	20240628	500 ms	📶
	Module connectivity					

Mgn

Module Registration Management

2025-03-28 18:04:25

Click the Manage button to open the module registration management list. After selecting the target module in the Registered Units list, click the Logout button to logout the module from the host; after selecting the target module in the Registrable Units list, click the Register button to register the module in the host.

Setup000-00:00:00
INT: 0.5 S

0 / 0

Enrollment

Wireless module registration

Cancel

Registered Unit

Registrable Unit

NO.	MODEL	SN	Id	Sel
R1	WT_M01	202407010021	20240701	
R2	WT_M01	202407010022	20240701	
R3	WT_M01	202407010023	20240701	
R4	WT_M01	202406290015	20240629	
R5	WT_M01	202407040027	20240704	
R6	WT_M01	202406280007	20240628	
R7	WT_M01	202406280010	20240628	
R8	WT_M01	202407010020	20240701	
R9	WT_M01	202407080032	20240708	

NO.	MODEL	SN	Id	Sel
1	WT_M01	202407010001	20240701	✓

Module selection box

2024-08-17 11:42:54

The host/module sub-interface switches individual channel measurements on and off; enables modification of thermocouple types, K, J, E, T, N, S, R, and B; and sets measurement filter coefficients for a board or module.

Measuring switches

Thermocouple Type

Setup000-00:00:00
INT: 0.5 S

9 / 9

Unit	Convert	Display	Record	Alarm	Com	System
Info	U-CH	Meas	Maintype	Subtype	Inst	1/4
Host	U1-01	ON	Tc	K	27.62 °C	Batch
Module	U1-02	ON	Tc	K	27.62 °C	
	U1-03	ON	Tc	K	27.66 °C	
	U1-04	ON	Tc	K	27.60 °C	
	U1-05	ON	Tc	K	OL	
	U1-06	ON	Tc	K	27.87 °C	
	U1-07	ON	Tc	K	27.72 °C	
	U1-08	ON	Tc	K	27.69 °C	
	U1-09	ON	Tc	K	27.66 °C	
	U1-10	ON	Tc	K	27.70 °C	

Filter 1

2025-03-28 18:04:36

Thermocouple Type

Setup000-00:00:00
INT: 0.5 S

9 / 9

Unit	Convert	Display	Record	Alarm	Com	System
Info	U-CH	Meas	Maintype	Subtype	Inst	1/9
Host	R1-01	ON	Tc	K	27.76 °C	Batch
Module	R1-02	ON	Tc	K	27.66 °C	
	R1-03	ON	Tc	K	27.52 °C	
	R1-04	ON	Tc	K	27.43 °C	
	R1-05	ON	Tc	K	27.68 °C	
	R1-06	ON	Tc	K	27.53 °C	
	R1-07	ON	Tc	K	27.38 °C	
	R1-08	ON	Tc	K	27.47 °C	
	R1-09	ON	Tc	K	27.42 °C	
	R1-10	ON	Tc	K	OL	

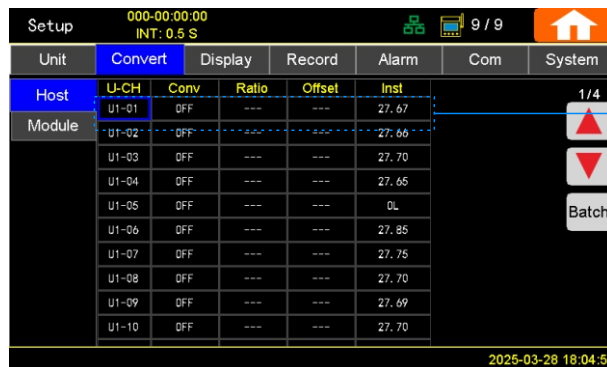
Filter 1

2025-03-28 18:04:45

Filter coefficient setting

□3-3 Convert Settings

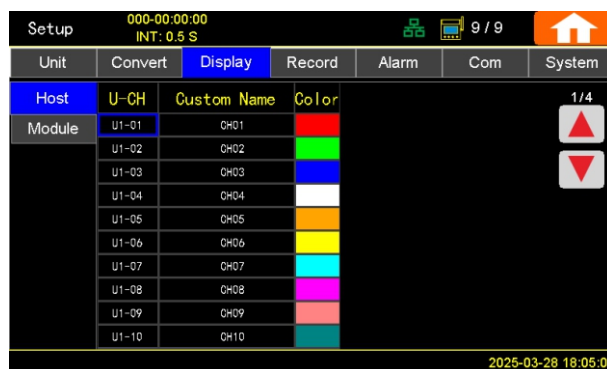
When the changeover switch is turned on, value = inst × ratio + offset.



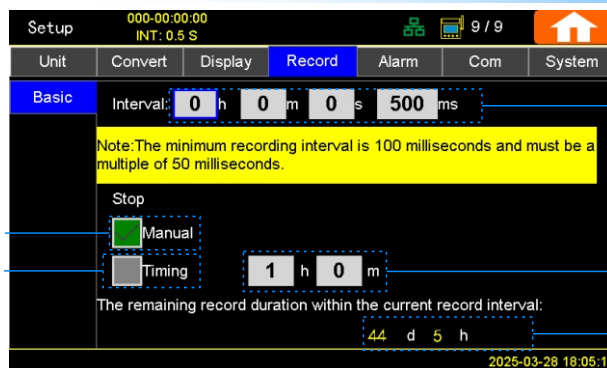
Switching and coefficient settings

□3-4 Display Settings

Modify the channel name and colour by clicking on the corresponding position.



□3-5 Record Settings



Data logging interval

Manually stop data logging

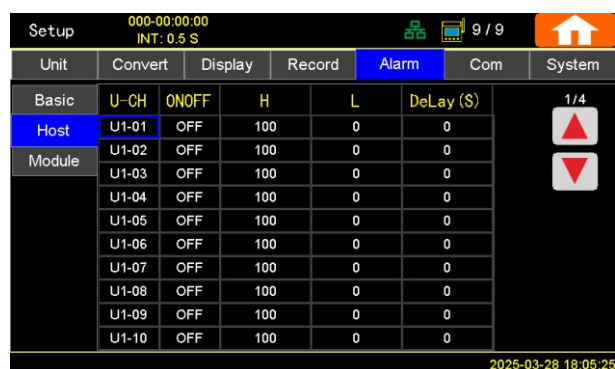
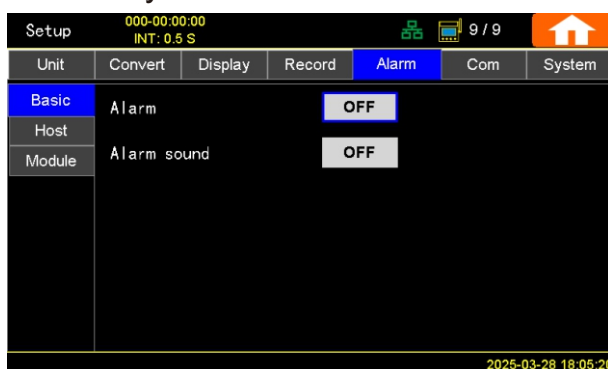
Automatic stopping of data logging

Length of automatic stop

Remaining recording time

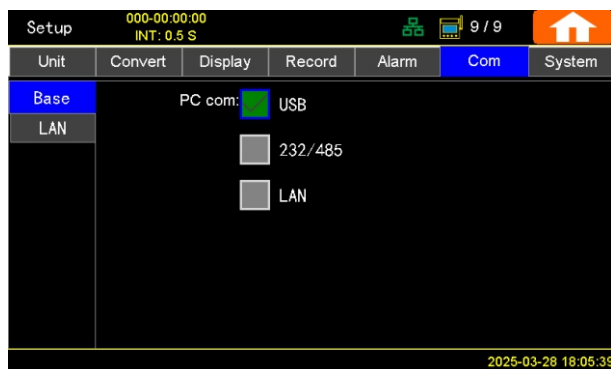
□3-6 Alarm Settings

In the Basic sub-screen, you can switch on/off the alarm master switch and switch on/off the alarm sound. In the Host/Module sub-interface, you can switch on/off alarms for individual channels, set upper and lower limits and alarm delays.

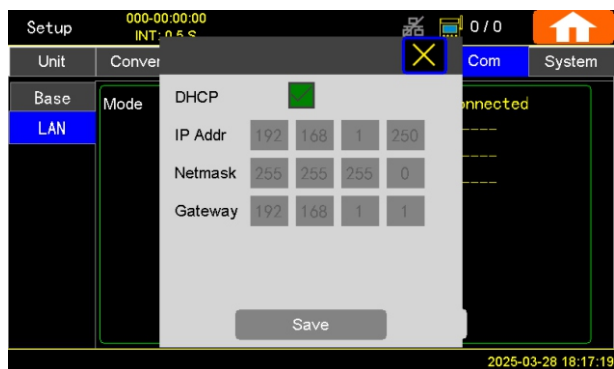
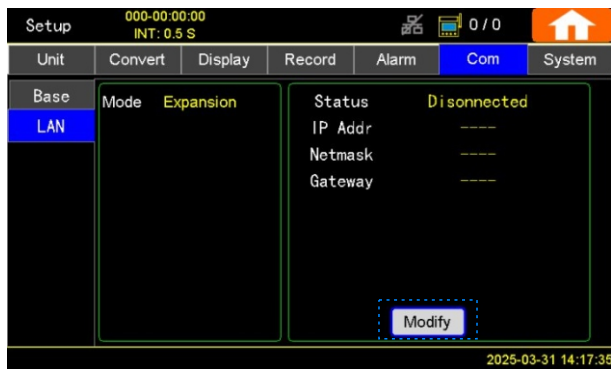


□3-7 Com Setting

Selectable ports for connection to PC as required.

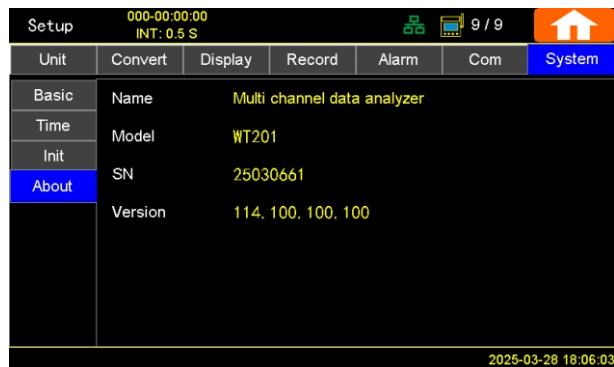
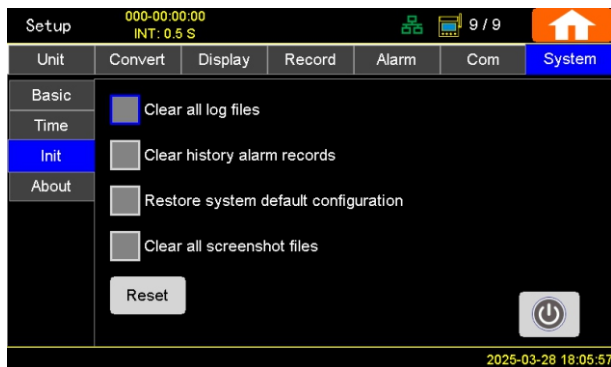
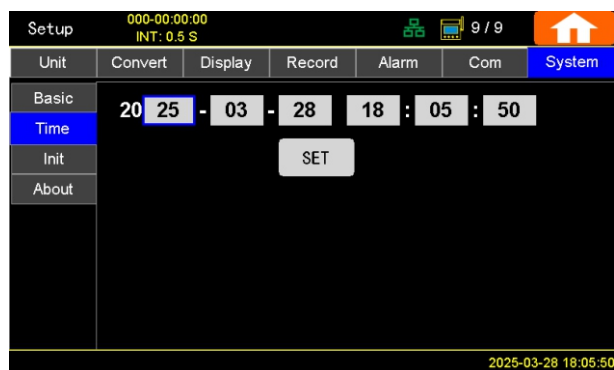
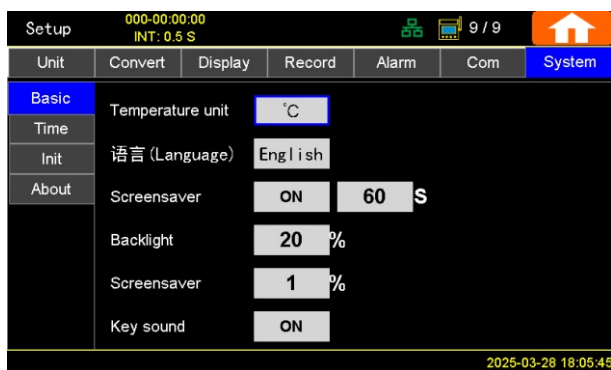


The LAN network can choose between automatic address recognition and manual address setting as required.



□3-8 System Setting

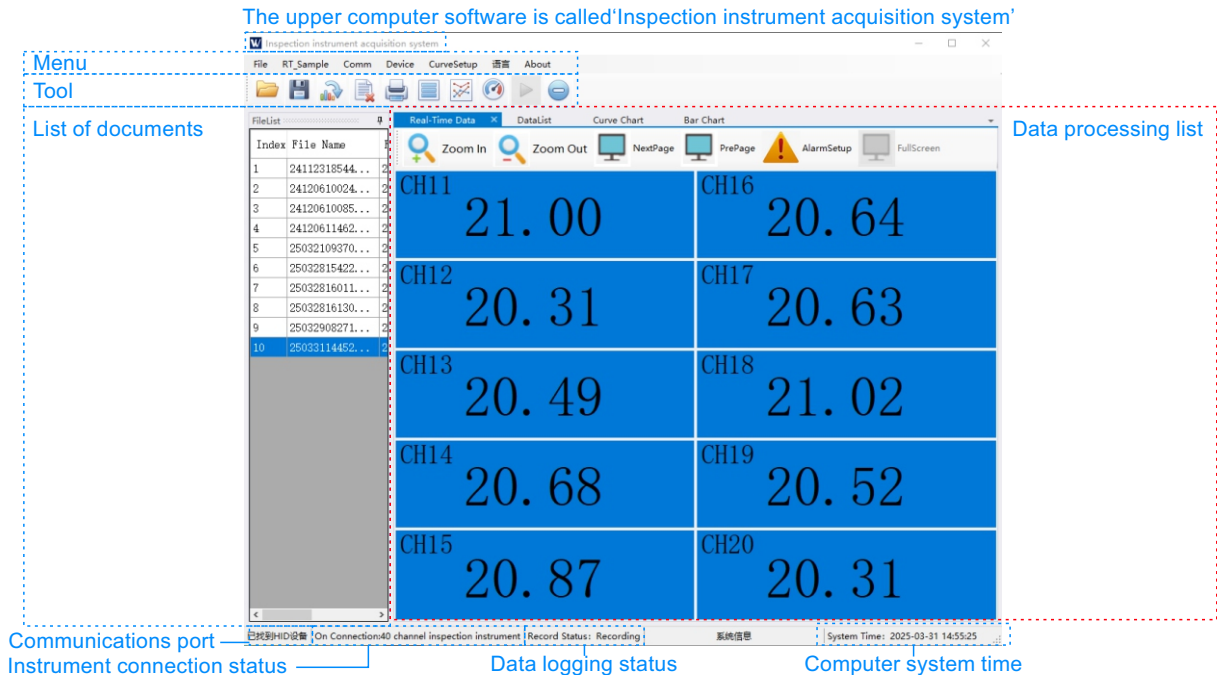
Click the corresponding checkbox to modify it.



4 Upper computer program

4-1 Main Interface

The instrument can be used in conjunction with the supplied host computer, which is called 'Inspection instrument acquisition system'.



4-2 Menu

The menu bar has seven menus: File, Real-time acquisition, Communication, Device, Curve, Language and About.

1. File menu has open (open the specified data file), save (save the data file to the specified location), import (the specified data file into the host computer), print preview (preview list of printed drawings) and exit (exit the host computer) a total of five functions.

2. Real-time acquisition menu can start and stop real-time acquisition.

3. Communication menu can specify the host computer and the instrument communication interface type, there are serial port (optional COM port), network port and USB.

4. the device menu has time synchronisation (host computer synchronization computer time), alarm settings (set data alarm upper and lower limits) and read files from the instrument (host computer to read the instrument's internal files).

5. Language menu can set the upper computer display language.

6. About menu can display the information of the upper computer.

□4-3 Tool

The toolbar has ten shortcut tools: open file, save file, import file, delete file, print file, data list, curve, real-time data list, start real-time acquisition and stop real-time acquisition.

□4-4 File

The file list shows the name and number of files recorded by the upper computer, which can be quickly opened or deleted by right-clicking after selecting the file in the list.

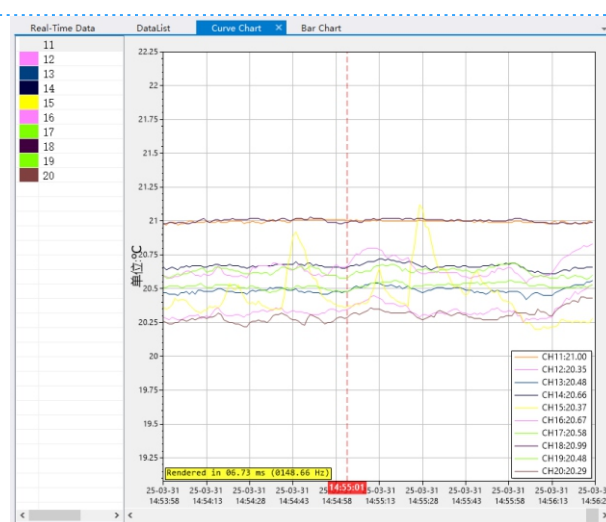
□4-5 Data handling

Data processing list can display data list, curve list, real-time data list and bar chart list at the same time.

The curve list can be zoomed in or out by using the mouse wheel.

Index	Record Time	CH1	CH2	CH3	CH4	CH5	CH6	CH7
626	2025-03-31 14:55:54.0	20.26	20.3	20.32	20.41	OL	21.2	20.76
627	2025-03-31 14:55:55.0	20.25	20.28	20.32	20.4	OL	21.21	20.79
628	2025-03-31 14:55:56.0	20.26	20.28	20.32	20.38	OL	21.2	20.79
629	2025-03-31 14:55:57.0	20.28	20.28	20.32	20.4	OL	21.2	20.79
630	2025-03-31 14:55:58.0	20.28	20.27	20.31	20.39	OL	21.18	20.79
631	2025-03-31 14:55:59.0	20.29	20.27	20.31	20.37	OL	21.2	20.8
632	2025-03-31 14:56:00.0	20.3	20.27	20.26	20.37	OL	21.2	20.75
633	2025-03-31 14:56:01.0	20.31	20.24	20.23	20.35	OL	21.2	20.74
634	2025-03-31 14:56:02.0	20.32	20.23	20.23	20.34	OL	21.2	20.72
635	2025-03-31 14:56:03.0	20.31	20.21	20.21	20.32	OL	21.2	20.71
636	2025-03-31 14:56:04.0	20.31	20.2	20.21	20.3	OL	21.2	20.66
637	2025-03-31 14:56:05.0	20.31	20.23	20.18	20.31	OL	21.19	20.61
638	2025-03-31 14:56:06.0	20.33	20.23	20.16	20.32	OL	21.19	20.63
639	2025-03-31 14:56:07.0	20.34	20.23	20.16	20.32	OL	21.19	20.67
640	2025-03-31 14:56:08.0	20.32	20.24	20.21	20.31	OL	21.19	20.69
641	2025-03-31 14:56:09.0	20.32	20.23	20.26	20.31	OL	21.19	20.68
642	2025-03-31 14:56:10.0	20.31	20.24	20.25	20.33	OL	21.18	20.7
643	2025-03-31 14:56:11.0	20.32	20.24	20.24	20.33	OL	21.18	20.7
644	2025-03-31 14:56:12.0	20.31	20.25	20.24	20.34	OL	21.18	20.73
645	2025-03-31 14:56:13.0	20.31	20.25	20.24	20.35	OL	21.18	20.74
646	2025-03-31 14:56:14.0	20.33	20.27	20.25	20.37	OL	21.17	20.75
647	2025-03-31 14:56:15.0	20.35	20.28	20.25	20.39	OL	21.17	20.78

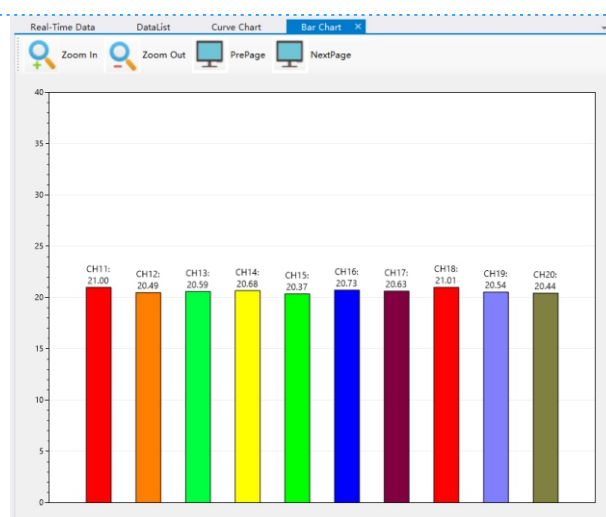
List



Curve

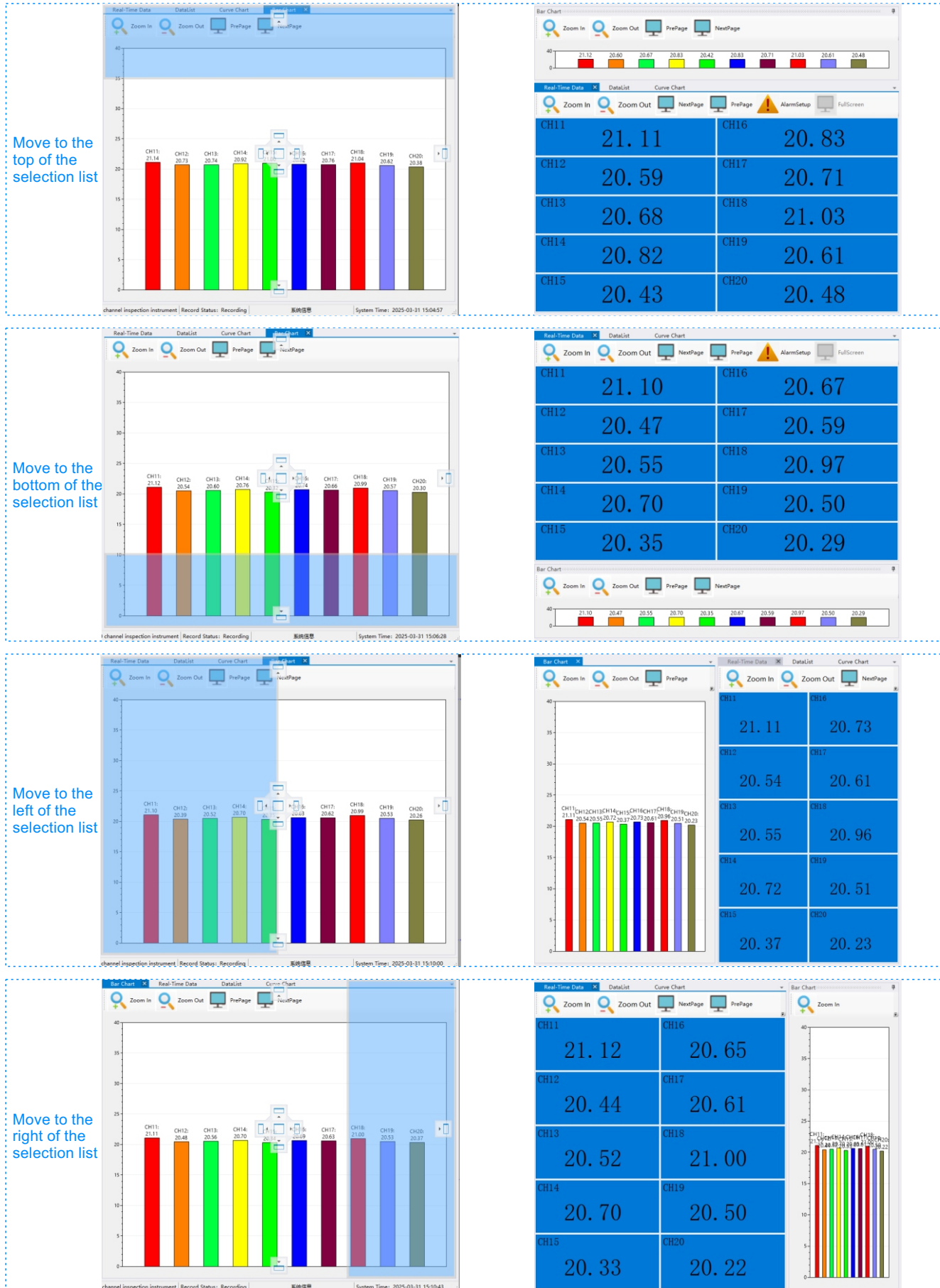
CH11	20.99	CH16	20.65
CH12	20.33	CH17	20.68
CH13	20.47	CH18	21.00
CH14	20.69	CH19	20.55
CH15	20.41	CH20	20.30

Real-Time data

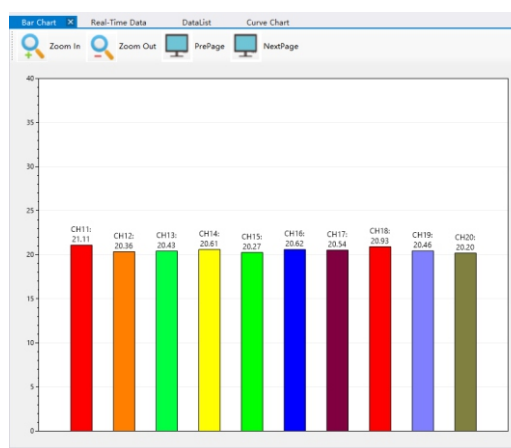


Bar

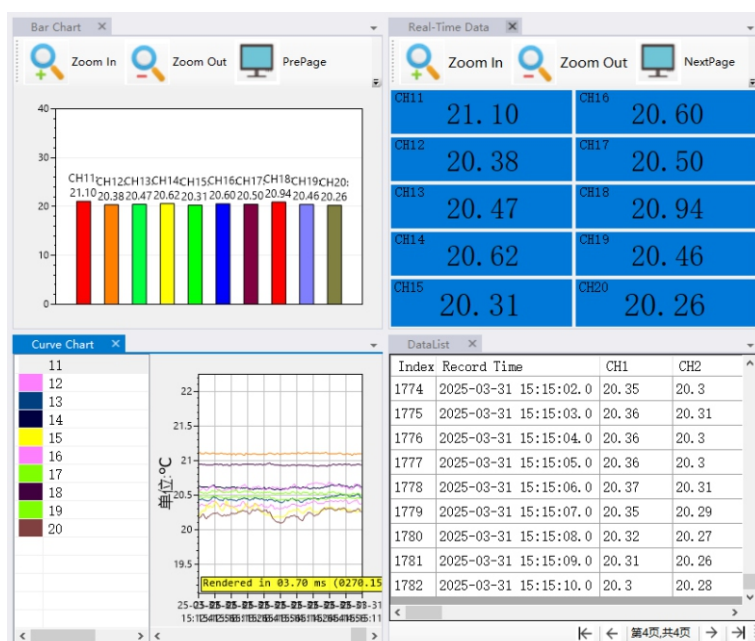
Each data list can move the list position and size as needed. Take the curve list and bar chart list for example, where the curve list is the moving list and the bar chart is the selected list.



Stacked on top of the selection list



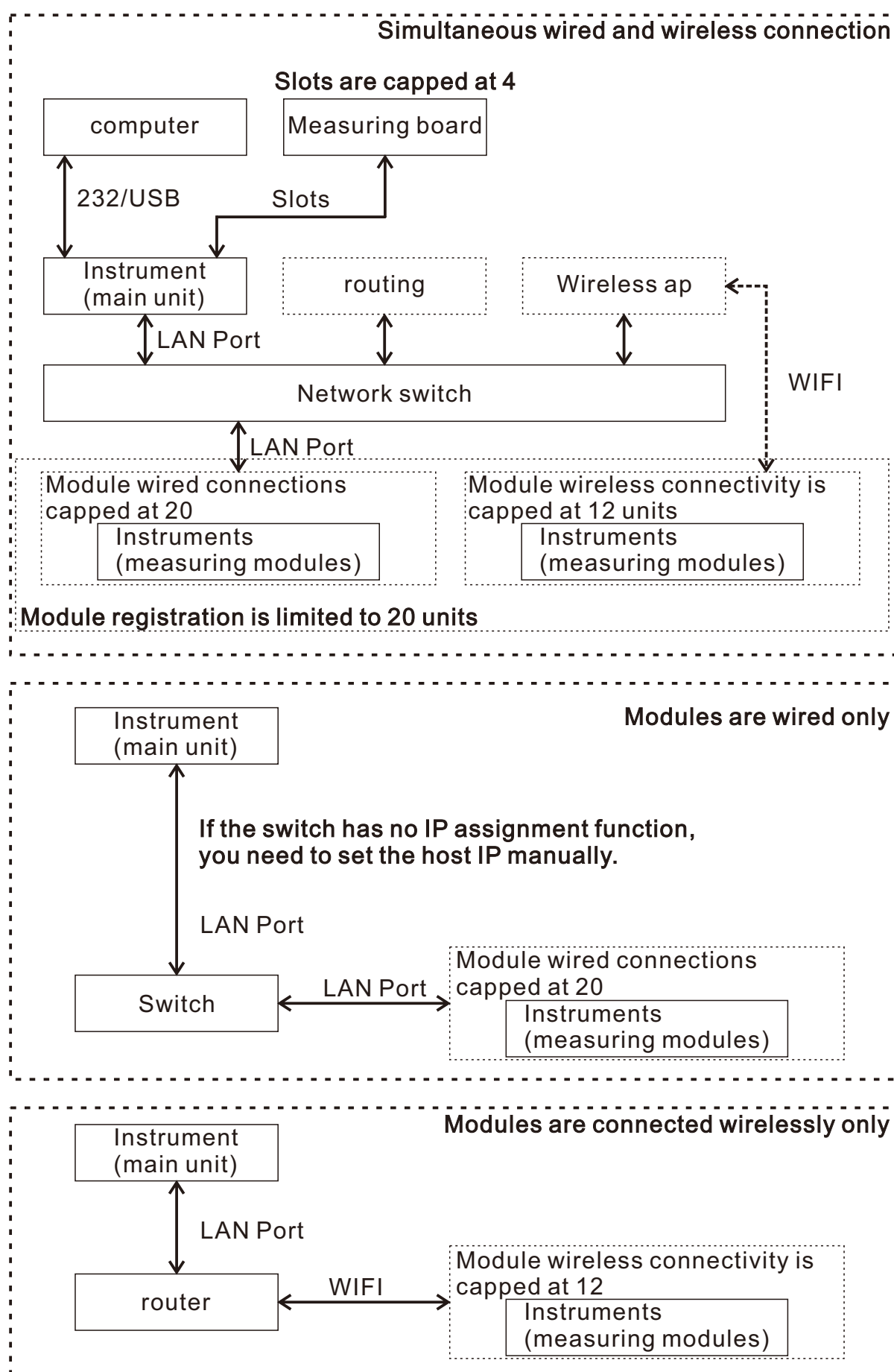
The final achievable positional placement is shown below.



□Appendix A - Thermocouple Reference Tables (partial)

Typology	Materials	Measurement range	Inaccuracies	Operating environment	Caveat
S	PtRh10% Pt	0~1450°C 32~2642°F	1. 5°C or 0. 25%	Oxidising or inert environments, high temperature environments	Do not insert into metal pipework and take care to prevent contamination
R	PtRh13% Pt	0~1450°C 32~2642°F	1. 5°C or 0.25%	Oxidising or inert environments, high temperature environments	Do not insert into metal pipework and take care to prevent contamination
B	PtRh30% PtRh6%	0~1700°C 32~3092°F	Above800°C,0.5%	Oxidising or inert environments, high temperature environments, commonly used in the glass industry	Do not insert into metal pipework and take care to prevent contamination
J	Cu CuNi	0~750°C 32~1382°F	2. 2°C or 0. 75%	Reduction, vacuum, inert environment	Restricted use in oxidising environments at high temperatures, not recommended for use at low temperatures
T	Cu CuNi	-200~350°C -328~662°F	Above0°C, 1.0°C or 0. 75% Below0°C, 1.0°C or 1.5%	Mild oxidation, reduction, vacuum or inert environments, good performance in humid environments, cryogenic and freezing applications	
E	NiCr CuNi	-200~900°C -328~1652°F	Above0°C, 0.7°C or 0.5% Below0°C, 1.7°C or 1.0%	Oxidising and inert environments	Restricted use in vacuum or reducing environments
N	NiCrSi NiSi	-270~1300°C -450~2372°F	Above0°C, 2.2°C or 0. 75% Below0°C, 2.2°C or 2. 0%	Alternative to Type K thermocouples for greater stability at high temperatures.	
K	NiCr AlNi(Si)	-200~1250°C -328~2282°F	Above0°C, 2.2°C or 0. 75% Below0°C, 2.2°C or 2. 0%	Clean oxidised and inert environment	Restricted use in vacuum or reducing environments

□Appendix B - Instrument Connection Schematics



Conditions of use

Item	Reference value or range
environmental temperature	20 ±5
Ambient humidity %RH	45~75
Atmospheric pressure Kpa	86~106
AC supply voltage V	86-265Vac ±2%
Voltage FrequencyHz	50/60 ±1%
AC Power Supply Waveforms	sine wave β=0.05
electromagnetic interference	should be avoided
condition of ventilation	favourable
sunlight exposure	Avoid direct sunlight

Packing List

Name	Number
Main unit	x1
Power cable	x1
user manual	x1
Certificate of Conformity/Warranty Card	x1
QC report	x1
thermocouple wire	1 bar/per channel
USB communications cable	x1
Rs232 communication cable	x1
Db9 male connector	x1



Foshan HZK Electronic Technology Co. , Ltd

Address: 701, Building 2, Tongde Intelligent Park, No.1 Dawei
Road, Shangjia Shi Community, Ronggui Street,
Shunde District, Foshan City, Guangdong Province,
China.

Telephones:0757-22901187 Websites:<http://www.hzk17.com>

Please contact your local dealer for sales and service

Certificate of Conformity

Product Name : Multi-channel data recorder

Product Model : WT201

Product Number: _____

Date: _____

Inspector: _____

Inspection Conclusion: _____

Product Warranty Card

- **Warranty Description:**
 - 1, The warranty period is within 24 months from the date of purchase;
 - 2, the warranty equipment in the warranty period, in the normal use and maintenance of the case, the instrument has a problem with the verification is true, the Division to provide free repair and replacement parts.
- **The following cases will not be repaired free of charge:**
 - 1.The product is repaired, altered, modified by a technician other than our company, or the user replaces any internal parts on his/her own;
 - 2.The number of the machine is altered or does not correspond to that listed in this certificate;
 - 3.Damage caused by water or other substances penetrating into the machine.
- **Equipment exceeding the free warranty and not covered by the free warranty regulations can be repaired by the Division, subject to a charge for spare parts and repairs where appropriate.**

Name		Models	
Telephones		Purchase date	
Address		Number	
Date of testing	Service record		Examiner