



Datasheet

UT3200+ Series Multi-channel Temperature Tester



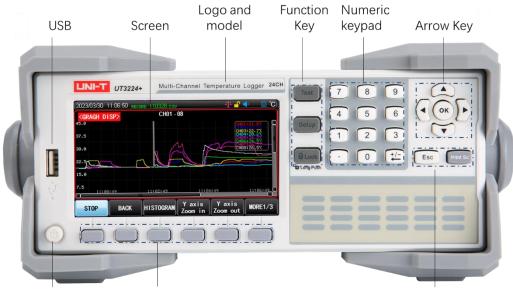
1. Characteristics

- 4.3 inch true color LCD
- Wide range of adaptability, supports Type K/N/E/J/T/R/S/B thermocouple
- Measurement range: -200°C 1800°C
- The main parameters of the temperature test are displayed in 6 digits, and the resolution is 0.01°C.
- Two scanning rate: fast (according to different model), slow
- Automatic detection of open-circuit thermocouple
- Direct numerical value reading, histogram and curve chart display mode.
- Cold junction compensation
- 8G USB and USB HOST interface, USB storage
- File management can keep the current setup of the instrument.
- The instrument is equipped with Type K thermocouple test line 2 meters, it can measure the temperature range -20°C 200°C.
- Alarm for over upper/lower limit. Alert for reading changing of over-limit. The upper limit and lower limit of temperature data in each channel can be set.
- RS-232C, LAN, DC24V external power supply interface. Supports SCPI and MODBUS RTU protocol.

2. Product Overview

UT3200+ series multi-channel temperature tester includes six models UT3208+, UT3216+, UT3224+, UT3232+, UT3240+ and UT3248+, which respectively corresponding to 8, 16, 24, 32, 40 and 48 channels.

UT3200+ series adopts 4.3 inch true color LCD. Multi-channel temperature data can be collected at the same time. It is compatible with a variety of temperature sensors and has fast response and high stability. In addition, UT3200+ series has automatic detection of open-circuit thermocouple, over limit alarm and communication transmission functions.



Power supply switch Function Key

Esc and Print screen Key

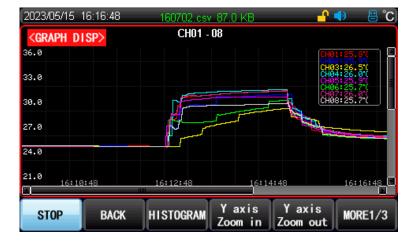


Thermocouple module port

3. Design Highlights

2023/05/24 11:27:24	RECORD 112718.csv	1.0 KB		🔹 🕄
<test></test>				
01K	25.47	05K	25	5.48
02K	25.48	06K	25	5.47
03K	25.47	07K	25	5.47
04K	25.47	08K	25.46	
PAGE No 1			TO	TAL No 3
STOP GRAP	H HISTOGRAM	Z00M +/-	CHANNEL SET	PAGE SHIFT

Various data display modes (Numerical reading/Curve chart/Histogram)





Over limit alarm

If the measured value exceeds the upper limit, the temperature data will display with red color. If the measured value exceeds the lower limit, the temperature data will display with blue color.

2023/05/15 16:24:12 _{RE}	cord 162404.csv	2.0 KB	🕂 🕂 🜗 📇 °C
<test></test>			
01K	29.29	05K	30.56
02K	29.83	06K	30.00
03K	29.86	07K	29.50
04K	30.91	08K	30.80
PAGE No 1			TOTAL No 3
STOP GRAPH	HISTOGRAM	Z00M +/-	CHANNEL PAGE SET SHIFT

8G USB can record real-time test data and screenshots

FILE NAME	104633.csv	(
TRIGGER T	10:46:33						
NUM_CHA	0:00:00						
UNIT	°C						
		TC-K	TC-K	TC-K	TC-K	TC-K	TC-K
No.	Date Time	CH1	CH2	CH3	CH4	CH5	CH6
1	10:46:34	21.9	21.64	21.5	21.59	21.46	21.54
2	10:46:35	27.15	28.28	28.12	27.62	26.43	27.7
3	10:46:36	26.38	26.37	27.06	26.71	25.33	26.74
4	10:46:37	25.99	25.83	26.67	26.39	24.88	26.34
5	10:46:38	25.7	25.38	26.39	26.12	24.5	26.01
6	10:46:39	25.7	25.03	26.15	25.86	24.18	25.72
7	10:46:40	25.01	24.22	25.74	25.45	23.71	25.24
8	10:46:41	24.81	24.22	25.59	25.26	23.56	25.07

Temperature Calibration (Input calibration and Input offset)

2023/05/15	16:25:23			<u> </u>	🕩 🗄 🗘
<guest ca<="" th=""><th></th><th></th><th></th><th></th><th></th></guest>					
NO	IP	VALUE	DELT	A	UNIT
001	1	26.1	0.0		З°
002	1	26.3	0.0		Э°
003	1	26.0	0.0		Э°
004	1	26.2			Э°
005	1	26.2			Э°
006	1	25.8			Э°
007	26.0		0.0		Э°
008	26.4		0.0		Э°
PAGE No	1			T0	TAL No 3
INPUT	INPUT	DELETE	ONEKEY	PAGE	ONEKEY
CAL	OFFSET	CAL	SET	SHIFT	DELETE

4. Technical Index

Model	UT3208+	UT3216+	UT3224+	UT3232+	UT3240+	UT3248+	
Channel number	8	16	24	32	40	48	
Display mode		Direct num	erical reading, cu	urve chart, his	togram		
Interface		USB HOST, F	RS232C, LAN,	DC24V, RS485	(optional)		
Туре		Ther	mocouple type J	,K,T,E,S,N,B,F	{		
Test range	-200℃ ·	-1800℃ (the ra	ange will change	with different	thermocoup	le model)	
Resolution			0.01℃				
Channel number		8-48 (channel is configured according to different model)					
Power voltage/freque ncy	AC 100-240V 50/60Hz						
Environmental Temperature	Temperature 15℃35℃, humidity <80%RH						
Sensor Type	Test Range of Temperature (℃) Accuracy of Test(℃) Description				ription		
Туре Т	-15	0 0	±1.	0	1 Th's 's th		
Thermocouple	0 -	- 400	±0.	8	1. This is the accuracy of the instrument, not		
Туре К	-10	0 0	±1.	2			
Thermocouple	0	1350	±0.	8	 including the compensation accuracy of the standard contact. 2 Standard contact 		
Type J	-10	0 0	±1.	0			
Thermocouple	0	1200	±0.	.7			
Туре N	-10	0 0	±1.	5	 2. Standard contact compensation adds 		
Thermocouple	0	1300	±0.	9	±0.5°C bas		
	-10	0 0	±0.	9			

Туре Е	0 850	±0.7	thermocouple
Thermocouple		_0.1	measurement accuracy.
Type S	0 100	±4.5	3. The measurement
Thermocouple	100 300	±3.0	accuracy of
mermocoupie	300 1750	±2.2	thermocouple is subject
Turne D	0 100	±4.5	to the standard of
Type R	100 300	±3.0	manufacturer.
Thermocouple	300 1750	±2.2	4. The instrument is
	600 800	±5.5	equipped with Type K
	800 1000	±3.8	thermocouple.
			Temperature range: -20
			-200 ℃; measurement
			accuracy: in −20 - 0 °C,
			the measurement
Туре В			accuracy is ± 1.2; in 0 -
Thermocouple	1000 1800	0.5	200 $^\circ C$, the
		±2.5	measurement accuracy
			is ±0.8 ℃.
			5. The isolation voltage
			between instrument
			channels is 350V DC and
			230V AC.

5. Accessories

Article	Quantity	Remarks
Multi-channel Temperature Tester	1pcs	The actual model is subject to the order. UT3208+, UT3216+, UT3224+, UT3232+, UT3240+, UT3248+
3C Power Line	1pcs	
8G USB	1pcs	
8-channel Temperature Test Module	Match with model	UT3208+/16+/24+/32+/40+/48+ is respectively equipped with 1/2/3/4/5/6 group.
RS232 Communication line	1pcs	
User's Manual		Electronic file can download from UNI-T official website.

6. Contact Us

UNI-T Technical Support Hotline: 400-876-7822

LINI-T. is the registered brand of Uni-Trend Technology (China) Co., Ltd. The product information in this document is subject to change without notice, for more information about UNI-T, please visit official website http://www.uni-trend.com

Copyright 2023-04 by UNI-T All Rights Reserved.