Precision Portable Thermometer 6 digit TC & RTD, **STEK** DTM-306

Input types: Pt100, Pt1000, Cu50, Cu100, K, S, E, T, J, R, B, N, as well as Ω, mV, and mA signals. There are three compensation modes for thermocouples, including internal compensation, external compensation and manual(simulated) compensation.

Mathematical-statistical measurement: In addition to basic measurement values, the relative value, maximum value, minimum value, average value, peak-peak value, standard deviation and sampling number can also be measured at the same time.

6-digital display, resolution can be set: The highest resolution is 0.001℃(RTD :Resistance Temperature Detector) or 0.01℃ (K/E/J/T/N thermocouple).

There are four display units for thermal resistances and thermocouples: Which can be switched at will, including Ω or mV, ℃, ℉and K.

Customized start-up display: Including math modes, resolution, display units and the reference junction compensation modes.

Accessories: K Type Thermocouple, 4 wire RTD Probe
mA Measuring Probe with Crocodile Clip

Code	Type	Effective Measurement Range	1-year tolerance Δ(see the notes)	Temperature Coefficient (0~18) ℃and (28~40) ℃
0	Pt100	(-100.000~+200.000)℃	±0.060℃	±0.003℃/℃
1	Pt100	(-200.000~+850.000)℃	±(0.02%RDG+0.060℃)	
2	Pt1000	(-140.000~+320.000)℃	±(0.02%RDG +0.060℃)	±0.003℃/℃
3	Cu50	(-50.000~+150.000)℃	±0.080℃	±0.004℃/℃
4	Cu100	(-50.000~+150.000)℃	±0.060℃	±0.008℃/℃
10	Ω	(0.000~2220.00) Ω	±(0.02%RDG +50mΩ)	±20 mΩ/℃
11	mV	(-100.000~+200.000)mV	±(0.015%RDG+10μV)	±3uV/℃
12	mA	(-2.000~+24.000) mA	±(0.03%RDG +3μA)	±0.4uA/℃
13	K	(-200.00~+1372.00)℃	(-100~-1372)℃:±0.50℃	±0.03℃/℃
			(-200~-100)℃:±0.80℃	±0.05℃/℃
14	S	(0.0~1768.0)℃	(200~1768)℃:±0.8℃	±0.05℃/℃
			(0~200)℃:±1.2℃	±0.07℃/℃
15	E	(-200.00~+1000.00)℃	(-100~+1000)℃:±0.40℃	±0.03℃/℃
			(-200~-100)℃:±0.6℃	±0.05℃/℃
16	T	(-200.00~+400.00)℃	(-100~+400)℃:±0.50℃	±0.03℃/℃
			(-200~-100)℃:±0.60℃	±0.05℃/℃
17	J	(-210.00~+1200.00)℃	(-100~+1200)℃:±0.50℃	±0.03℃/℃
			(-210~-100)℃:±0.60℃	±0.05℃/℃
18	R	(0.0~1768.0)℃	(200~1768)℃:±0.8℃	±0.05℃/℃
			(0~200)℃:±1.2℃	±0.07℃/℃
19	B	(300.0~+1820.0)℃	(600~+1820)℃:±0.9℃	±0.05℃/℃
			(300~600)℃:±1.3℃	±0.07℃/℃
20	N	(-200.00~+1300.00)℃	(-100~+1300)℃:±0.50℃	±0.03℃/℃
			(-200~-100)℃:±0.90℃	

Notes:

1) Based on ITS-90（ITS: The International Temperature Scale）; the environmental condition: (23±5)℃, ≤85%RH; it should be put in the stable
environmental conditions for at least one hour, wait 5 minutes after start-up, with the menu parameters of S_rAtE=1 and FILt=1, exclusive of sensor errors. The tolerance is 1.2Δ in case of S_rAtE=2.

2) The thermal resistance and thermocouple's measurement range and tolerance shown in other units (Ω, mV, ℉and K) are equivalent to the above table.

Resolution: The highest resolution:

Type Code	Type	Electric Quantity	Celsius Degree ℃	Fahrenheit degree ℉	Kelvin K	Type Code	Type	Electric Quantity	Celsius Degree ℃	Fahrenheit degree ℉	Kelvin K
0	Pt100	1mΩ	0.001℃	0.001℉	0.001K	13	K	1μV	0.01℃	0.01℉	0.01 K
1	Pt100	1mΩ	0.001℃	0.001℉	0.001K	14	S	1μV	0.1℃	0.1℉	0.1 K
2	Pt1000	10mΩ	0.001℃	0.001℉	0.001K	15	E	1μV	0.01℃	0.01℉	0.01 K
3	Cu50	1mΩ	0.001℃	0.001℉	0.001 K	16	T	1μV	0.01℃	0.01℉	0.01 K
4	Cu100	1mΩ	0.001℃	0.001℉	0.001 K	17	J	1μV	0.01℃	0.01℉	0.01 K
10	Ω	<998.000Ω:1mΩ ≥998.00Ω:10 mΩ				18	R	1μV	0.1℃	0.1℉	0.1 K
11	mV	1μV	-----	-----	-----	19	B	1μV	0.1℃	0.1℉	0.1 K
12	mA	1μA	-----	-----	-----	20	N	1μV	0.01℃	0.01℉	0.01 K

Notes: The Fahrenheit degree (℉) is not the legal measurement unit in the P.R.C, so Fahrenheit degree (℉) cannot be used as temperature measurement unit except for special need.

Power Supply and Power Consumption:

Three 1.5V AA batteries. The operating current is no more than 1.5mA when the backlight is shut off, and about 27mA when turned on.

Conditions for Application Environment:

Ambient temperature : (0~50)℃,
Ambient humidity : ≦85%RH

Environment conditions to ensure accuracy:

Ambient temperature : (23±5)℃,
Ambient humidity : 30~85%RH,
Dimensions and Weight : 155 X 70 X 30 mm, about 0.25kg (batteries included)