

SPECIFICATIONS

General Specifications

Technical Specifications	
Display	5.0 inch 480 x 800 TFT LCD capacitive screen
Size	16.97" x 4.13" x 2.04" (177 mm x 105 mm x 52 mm)
Weight	1.5 lbs. (0.65 Kg)
Power Supply	6600mAh, 23.8Wh lithium battery, charging time 4-6 hours, battery pack can be charged independent. Battery life typically 16 hours
Environment	Specification guaranteed temperature range: (10-30) °C Working Temperature: (-10-50) °C Storage temperature: (-20-70) °C Humidity: 0% ~ 95% RH, non-condensing
Warm-Up Time	10 minutes
Ports Protection Voltage	50V max
CE Certificate	TUV IEC61326, IEC61010
Rohs Compliance	Rohs II Directive 2011/65/EU, EN50581:2012
IP Protection Level	IP67, 1 meter drop test
Communication	Isolate USB-TYPEC (slave), Bluetooth BLE
Input Channels	CH1, CH2 analog channel, 6 pins smart lemo ports for RTD probe; MINI-TC ports for TC probe
Measurement Display	Single channel, dual channel, differential (e.g T1-T2)
Measuring Rates	CH1, CH2 analog channels alternately and cyclically measure RTD measuring rate: 1.6S/single channel, 1.6S/dual channel TC measuring rate: 0.8S/single channel, 0.8S/dual channel
Measurement Units	°C, °F, K
Statistics	Max, Min, Avg

Measurement Specifications

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PRT Measurement	RTD Types	ITS-90, CVD, Ohms, Pt100 (385), Pt10 (385), Pt25 (385), Pt50 (385), Pt100 (3916), Pt100 (3926), Pt100 (391), Cu100 (428), Cu50 (428), Cu10 (427), Ni100 (617), Ni100 (618), Ni120 (672), and custom RTD
	Resistance Accuracy	0-400Ω: ±0.5mΩ@ (0-20Ω), ±25ppm@ (20-400Ω)
	Measurement range	-200°C ~ 850°C
	Resolution	±0.1mΩ or 0.001°C
	Connection Type	4-wire smart connection
	Excitation Current	1 mA - alternating constant current
	Temperature Coefficient	±2ppm FS/°C (-10°C~10°C and 30°C~50°C)
TC Measurement	TC Types	mV, S, R, B, K, N, E, J, T, C, D, G, L, U, LR, A, 10uV/°C, 1mV/°C, Standard TC
	Electrical Measurement	-10~75mV: 50ppm RDG+2uV
	TC measurement range	-270°C ~ 1800°C
	Resolution	±0.1uV or 0.001°C
	Connection Type	Mini-TC
	CJC compensation methods	Internal, external or manual entry
	Temperature Coefficient	±5ppm FS/°C (-10°C~10°C and 30°C~50°C)
	Internal CJC Specification	±0.15°C (-10°C~50°C)