METRAVI | PROCESS SOURCE | 11+

GENERAL SPECIFICATIONS

- High Acuuracy of 0.02% for source, 6 digits display for source.
- Source: DC Voltage, DC current, resistance, simulating transmitter, temperature (thermocouple/resistance temperature detector), frequency, pulse, contact.
- Provides 25% step or 100% step DC current output manually or automatically.
- TC source terminals and built-in lead connector of same temperature (RJ compensation with auto-reference joint point); the unit can be converted between ºC and ºF.
- Outside place temperature detector with high accuracy of ± 2ºC.
- Big LCD can display the TC/RTD value and voltage/resistance value, mA value and mA% value corresponding simultaneously.
- Carefully designed key layout, each pair of increase/decrease key correspond with the set value on the LCD.
- It can be calibrated without open the cover of the calibrator.
- White LED backlight with auto turn off, and auto turn off the power, it is suitable for use on locale.

TECHNICAL SPECIFICATIONS

These specifications assume:

- A 1-year calibration cycle
- An operating temperature of 18ºC to 28ºC (64.4ºF~82.4ºF)
- Relative humidity of 35% to 70% (non-condensing)

Accuracy is expressed as ± (percentage of set value + percentage of range)

Function	Reference	Range	Reolution	Accuracy	Remark
DC voltage	100mV	-10.000~110.000mV	1μV	0.02+0.01	Maximum output: 0.5mA
	1000mV	-100.00~1100.00mV	10μV	0.02+0.01	Maximum output: 2mA
	10V	-1.0000~11.0000V	0.1mV	0.02+0.01	Maximum output: 5mA
DC current	20mA	0.000mA~22.000mA	1μA	0.02+0.02	Simulator transmitter: 5-28V power supply outside; 1KΩ at 20mA
Resistance	400Ω	0.00Ω~400.00Ω	0.01Ω	0.02+0.02	Excitation current: ± 0.5-3mA; if ± 0.1-0.5mA, add 0.1Ω; Does not include lead resistance
	4KΩ	0.0000 KΩ~4.0000 KΩ	0.1Ω	0.05+0.025	Excitation current: ± 0.0/mA Does not include lead resistance
	40kΩ	0.000 KΩ~40.000 KΩ	1Ω	0.1+0.1	Excitation current: ± 0.01mA; Does not include lead resistance
TC	R	0ºC~1767ºC	1ºC	0~100ºC; 1.5ºC 100~1767ºC: 1.2ºC	By using ITS-90 temperature scale; The accuracy does not include the error of internal temperature compensation caused by a sensor
	S	0ºC~1767ºC		0~100ºC : 1.5ºC 100~1767ºC : 1.2ºC	
	K	-200.0ºC~1372.0ºC	0.1ºC	-200.0~100.0 : 0.6ºC -100~400.0º : 0.5ºC 400.0~1200.0ºC : 0.7ºC 1200.0~1372.0 : 0.9ºC	
	E	-200.0ºC~1000.0º		-200~100.0ºC : 0.6ºC -100~600.0ºC : 0.5ºC 600~1000.0ºC : 0.4ºC	

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TECHNICAL SPECIFICATIONS

Function	Reference	Range	Reolution	Accuracy	Remark
TC	J	-200.0º~1200.0ºC		-200.0~100.0 : 0.6ºC -100~800.0ºC : 0.5ºC 800~1200.0ºC : 0.7ºC	
	T	-250.0º~400.0ºC		-250~400.0º : 0.6ºC	
	N	-200.0ºC~1300.0ºC		-200~100.0ºC : 1.0ºC -100~900.0ºC : 0.7ºC 900~1300.0ºC : 0.8ºC	
	B	600ºC~1820ºC	1ºC	600~800ºC : 1.5ºC 800~1820ºC : 1.1ºC	
	L	-200.0º~900.0ºC	0.1ºC	-200.0~0.0ºC : 0.7ºC 0.0~900.0ºC : 0.5ºC	
	U	-200.0ºC~600.0ºC	0.1ºC	-200.0~0.0ºC : 0.7ºC 0.0~600.0ºC : 0.5ºC	
RTD	Pt 100 385	-200.0º~800.0ºC	0.1ºC	-200.0~0.0ºC : 0.3ºC 0.0~400.0ºC : 0.5ºC 400~800.0ºC : 0.8ºC	By using temperature scale ITS-90 Excitation current: ± 0.5~±3mA for Pt 100, Cu10, Cu50 add 0.5ºC when excitation current is ± 0.1mA-0.5mA
	Pt200 385	-200.0ºC~630.0ºC		-200~100.0ºC : 0.8ºC 100.0~300.0ºC : 0.9ºC 300.0~630.0ºC : 1.0ºC	Excitation current: ± 0.05mA~±0.3mA for PT200, PT500, PT1000
	Pt500 385	-200.0ºC~630.0ºC		-200~100.0ºC : 0.4ºC 100.0~300.0ºC : 0.5ºC 300.0~630.0ºC : 0.7ºC	Does not include lead resistance
	Pt1000 385	-200.0ºC~630.0ºC		-200~100.0ºC : 0.2ºC 100~300.0ºC : 0.5ºC 300~630.0ºC : 0.7ºC	
	Cu10	-100.0ºC~260.0ºC		1.8ºC	
	Cu50	-50.0ºC~150.0ºC		0.6ºC	
FREQ	100Hz	1.00Hz~110.00Hz	0.01Hz	±2 count	Output voltage: +1-+11V (zero base waveform); Amplitude accuracy: ± 5% reading value + 0.5V; Maximum load: > 100KΩ Duty Cycle : 50%
	1KHz	0.100KHz~1.100KHz	1Hz		
	10KHz	1.0KHz~11.0KHz	0.1KHz		
	100KHz	10KHz~110KHz	2KHZ	± 5 count	
PULSE	100Hz	1~100000 cycles	1 cyc	± 2 count	
	1KHz				
	10KHz				
SWITCH	100Hz	1.00Hz~110.00Hz	0.01Hz	± 2 count	Contact output (with 0.0V amplitude setting, FET switch ON/OFF) Maximum open/close voltage/current : + 28V/50mA
	1KHz	0.100KH~1.100KHz	1Hz		
	10KHz	1.0KHz~11.0KHz	0.1KHz		
	100KHz	10KHz~110KHz	2KHz	± 5 count	

OTHER FEATURE

- Temperature Coefficient: 0.1 times the applicable accuracy specification per degree C for 5ºC to 18ºC and 28ºC to 50ºC.
- The range of the internal temperature compensation sensor is from 0ºC to 40ºC, Compensation error ≤ ± 0.5ºC.
- The accuracy of the temperature probe: ± 0.2ºC. The range of the measured temperature is from -20ºC-100ºC.
- Maximum voltage between any output terminal and earth: 30Vp-p
- Maximum output current: Approximately 25mA.

GENERAL SPECIFICATIONS

- Operating temperature and humidity <80% at 0ºC to 50ºC (non-condensing) <70% at 40ºC to 50ºC
- Storage temperature and humidity <90% at -25ºC to 60ºC (non-condensing)
- Display and backlight - A dual, Liquid Crystal Display, White LED for backlight
- Power Supply - 4 x 1.5AA-size alkaline batteries
- Automatic Power-off: It's allowed set the Automatic Power-off time from 0 to 60 minutes
- Size: 245 x 95 x 42 (mm)
- Weight: About 500g
- Accessories, Test leads, Fuse

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