



7550A

Precision Current Shunt

FEATURES

- 0.01 % High Accuracy
- 4 1/2 Digit AC & DC Current Meter
- Built-in Over Current Protection
- Less than 10 ppm /°C
- High Stability & Reliability

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1 μ A to 250 A

Lab Current Standard 1 μ A to 250 A

Current Range AC & DC Current

Shunt, AC & DC Current Meter

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Applications

- AC & DC Current Meter
- AC & DC Current Sensor
- AC & DC Power Supply
- AC & DC Electronic Load
- AC & DC Power Meter

Descriptions

- Model 7550A has five precision selectable Ultra stable Current Shunts which ranges from 10 Ω , 1 Ω , 0.1 Ω , 0.01 Ω , and 0.001 Ω . The Shunt T/C is less than 10 ppm, and the internal current meter will measure from 1 μ A to 250 Amps.
- The Five selector switches, Shunts and the internal 4 1/2 Digit AC & DC Current Meter displays the respective shunt current. Adding an external DVM (with 5 1/2 digit or higher) will increase both resolution and current reading accuracy.

Order Information

RS232 interface



GPIB interface



USB interface



LAN interface



OPTIONAL ACCESSORIES

RS232 interface	GTL-186 250 A 1 m RNB80-12 welding cable FOR 7550A x 2
GPIB interface	GTL-187 250 A 1.5 m RNB80-12 welding cable FOR 7550A x 2
USB interface	GTL-188 250 A 2 m RNB80-12 welding cable FOR 7550A x 2
LAN interface	GTL-189 250 A 4 m RNB80-12 welding cable FOR 7550A x 2
	GTL-190 250 A 3 m RNB80-12 welding cable FOR 7550A x 2
	GTL-191 250 A 2 m RNB80-8 welding cable FOR 7550A x 2
	GTL-192 250 A 4 m RNB80-8 welding cable FOR 7550A x 2

Shunt Specifications					
Range	Shunt Value	* DC Accuracy		* AC Accuracy \leq 400Hz	Max input DC/AC rms
		Typ.	Max.		
200 A	0.001 Ω	0.02 %	0.04 %	0.1 %	250 A
20 A	0.01 Ω	0.01 %	0.02 %	0.1 %	30 A
2 A	0.1 Ω	0.01 %	0.02 %	0.1 %	4 A
200 mA	1 Ω	0.01 %	0.02 %	0.1 %	400 mA
20 mA	10 Ω	0.01 %	0.02 %	0.1 %	40 mA

4 1/2 Digit current meter specifications					
Range	Resolution	* DC		* AC(50Hz to 400Hz)	
		Accuracy \pm (rdg% + counts)			
		Typ.	Max.		
200 A	0.01 A/0.1 A	0.05+2	0.1+2	0.5+20	
20 A	0.001 A/0.01 A	0.05+2	0.1+2	0.5+20	
2 A	0.1 mA/1 mA	0.05+2	0.1+2	0.5+20	
200 mA	0.01 mA/0.1 mA	0.05+2	0.1+2	0.5+20	
20 mA	0.001 mA/0.01 mA	0.05+2	0.1+2	0.5+20	

- * The shunt is a fourwire type and can be adjusted and calibrated. The AC accuracy is limited to below 100 A.
- * For Sinewave input \geq 1800 count.
- * The specifications apply when the 7550A is powered on for at least 30 minutes
- * The typical not apply when 20A, 200A use over 50% range current and over 3 mins or the ON/OFF current period ratio less than 1/3.
- * For high accuracy measurement please use the 6 1/2 D.V.M. to measure the voltage output which is proportional to the current value and suggest DVM away from shunt at least 12cm

General information's :	
Temperature range:	0 °C to 40 °C; stated accuracy for 1 year at 23C \pm 2 °C.
Temperature coefficient :	Range 0.02A 、 0.2 A 、 2 A Less than 0.001% per °C (20 °C to 40 °C)
	Range 20A Less than 0.002% per °C (20 °C to 40 °C)
	Range 200A Less than 0.003% per °C (20 °C to 40 °C)

AC Input	LINE	115Vac/ 230Vac \pm 10%
	FREQUENCY	50/60 Hz
	MAX. POWER CONSUMPTION	12 W
Dimension (HxWxD)	88 mm x 420 mm x 325 mm	
WEIGHT	13.5 Kg	

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