

7550A

Precision Current Shunt



PRECISION CURRENT SHUNT



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7550A Precision Current Shunt

Lab Current Standard
1uA-250A Current Range
AC & DC Current Shunt
AC & DC Current Meter



Features

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

Descriptions

- Model 7550A has five precision selectable Ultra stable Current Shunts which ranges from 0.001 to 10Ω. The Shunt T/C is less than 10ppm, and the internal current meter will measure from 1μA to 250Amps.
- 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.

Applications

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

Specifications

Range	Shunt Value	DC Accuracy *		AC Accuracy * ≤ 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

All Shunt types are 4 terminal networks with calibration adjustments for each network.
AC accuracy is limited to 100A.

4 1/2 Digit Ampere Meter

Shunt Range	4 1/2 DAM Resolution	DC *		AC * (50~400Hz)
		Accuracy ± (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

* For Sinewave input ≥ 1800 counts.

Temperature Range : 0 to 40°C : All specification apply for 23°C±2°C.

Temperature coefficient :

Range 0.2A、2A Less than 0.001% per °C (20 °C - 40 °C)

Range 20A Less than 0.002% per °C (20 °C - 40 °C)

Range 200A Less than 0.003% per °C (20 °C - 40 °C)

AC Power : 115/230 Vac ±10%, 50/60Hz

Cooling : Force Fan Cooled

Weight : 7.0kg

Dimension : 420(W)x88(H)x325(D)mm

Order Information

► **7550A** Precision Current Shunt