

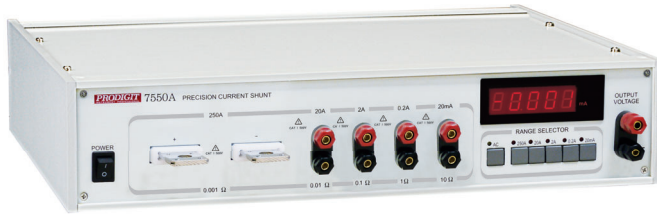
7550A

Precision Current Shunt

FEATURES

- Model 1000A has five precision selectable Ultra stable Current Shunts which ranges from 0.0001Ω to 1Ω . The Shunt T/C is less than 10 ppm, and the internal current meter will measure from $1 \mu A$ to 1000 Amps.
- The five shunts selector and internal 5 1/2 Digit AC & DC Current Meter displays the respective shunt current. Connect an external DVM into output (with 5 1/2 digit higher) will increase both resolution and current reading accuracy.
- Current range can be set and current value readback by optional interface.

7550A Precision Current Shunt



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

Features

- 0.01 % High Accuracy
- 4 1/2 Digit AC & DC Current Meter
- Built-in Over Current Protection
- Less than 10 ppm / $^{\circ}$ C
- High Stability & Reliability

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.

Shunt Specifications					
Range	Shunt Value	* DC Accuracy		* AC Accuracy $\leq 400\text{Hz}$	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(50 Hz to 400 Hz)
		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 four-wire type and can be adjusted and calibrated. The AC accuracy is limited to below 100 A.
- * For Sinewave input ≥ 1800 count.
- * The specifications apply when the 7550A is powered on for at least 30 minutes
- * The typical not apply when 20 A, 200 A 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 120 cm

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

AC Input	LINE	115 Vac/ 230 Vac \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	

Global Headquarters

GOOD WILL INSTRUMENT CO., LTD.

No.7-1, Jhongsing Road, Tucheng Dist., New Taipei City 236, Taiwan
T +886-2-2268-0389 F +886-2-2268-0639
E-mail: marketing@goodwill.com.tw

China Subsidiary

GOOD WILL INSTRUMENT (SUZHOU) CO., LTD.

No. 521, Zhujiang Road, Snd, Suzhou Jiangsu 215011 China
T +86-512-6661-7177 F +86-512-6661-7277

Malaysia Subsidiary

GOOD WILL INSTRUMENT (SEA) SDN. BHD.

No. 1-3-18, Elit Avenue, Jalan Mayang Pasir 3,
11950 Bayan Baru, Penang, Malaysia
T +604-6111122 F +604-6115225

Europe Subsidiary

GOOD WILL INSTRUMENT EURO B.V.

De Run 5427A, 5504DG Veldhoven, THE NETHERLANDS
T +31 (0)40-2557790 F +31 (0)40-2541194

U.S.A. Subsidiary

INSTEK AMERICA CORP.

5198 Brooks Street Montclair, CA 91763, U.S.A.
T +1-909-399-3535 F +1-909-399-0819

Japan Subsidiary

TEXIO TECHNOLOGY CORPORATION.

7F Towa Fudosan Shin Yokohama Bldg., 2-18-13 Shin
Yokohama, Kohoku-ku, Yokohama, Kanagawa,
222-0033 Japan
T +81-45-620-2305 F +81-45-534-7181

Korea Subsidiary

GOOD WILL INSTRUMENT KOREA CO., LTD.

Room No.503, Gyeonginro 775 (Mullae-Dong 3Ga,
Ace Hightech-City B/D 1Dong), Yeongduengpo-Gu,
Seoul 150093, Korea
T +82-2-3439-2205 F +82-2-3439-2207

India Subsidiary

GW INSTEK INDIA LLP.

2F, No. 20/1, Salarpuria Galleria Building, Bellary Road,
Kashi Nagar, Byatarayanapura, Bangalore, Karnataka 560092 India
T +91-80-4203-3235

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