



1000A

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 $1 \mu\text{A}$ 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.

1000A Precision Current Shunt



Input terminals can be placed in the rear panel (1000A-R)



1 μ A to 1000 A

Lab Current Standard 1 μ A to 1000 A Current Range AC & DC
Current Shunt, AC & DC Current Meter

Features

- 0.01 % High Accuracy
- 5 1/2 Digit AC & DC Current Meter
- Built-in Over Current Protection
- Less than 10 ppm / $^{\circ}$ C (Range 1000 A : less than 50 ppm/ $^{\circ}$ C)
- High Stability & Reliability
- Input terminals can be placed in the rear panel (option Model 1000A-R)
- Optional Interface : GPIB 、 RS232 、 USB 、 LAN

Applications

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

Descriptions

- Model 1000A has five precision selectable Ultra stable Current Shunts which ranges from 0.0001 Ω to 1 Ω . The Shunt T/C is less than 10 ppm, and the internal current meter will measure from 1 μ 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.

Order Information

RS232 interface



GPIB interface



USB interface



LAN interface



OPTIONAL ACCESSORIES

RS232 interface	GTL-170 1000 A Copper braided connector(Single Hole) L: 1 m x 2	GTL-181 1000 A Copper braided connector(Double Hole) L: 2 m x 2
GPIB interface	GTL-171 1000 A Copper braided connector(Single Hole) L: 2 m x 2	GTL-182 1000 A Copper braided connector(Double Hole) L: 3 m x 2
USB interface	GTL-171 1000 A Copper braided connector(Single Hole) L: 2 m x 2	GTL-183 1000 A Copper braided connector(Double Hole) L: 4 m x 2
LAN interface	GTL-172 1000 A Copper braided connector(Single Hole) L: 3 m x 2	GTL-184 1000 A Copper braided connector(Double Hole) L: 5 m x 2
	GTL-173 1000 A Copper braided connector(Single Hole) L: 4 m x 2	GTL-186 250 A 1 m RNB80-12 welding cable FOR 7550A x 2
	GTL-174 1000 A Copper braided connector(Single Hole) L: 5 m x 2	GTL-187 250 A 1.5 m RNB80-12 welding cable FOR 7550A x 2
	GTL-175 500 A Copper braided connector(Single Hole) L: 1 m x 2	GTL-188 250 A 2 m RNB80-12 welding cable FOR 7550A x 2
	GTL-176 500 A Copper braided connector(Single Hole) L: 2 m x 2	GTL-189 250 A 4 m RNB80-12 welding cable FOR 7550A x 2
	GTL-177 500 A Copper braided connector(Single Hole) L: 3 m x 2	GTL-190 250 A 3 m RNB80-12 welding cable FOR 7550A x 2
	GTL-178 500 A Copper braided connector(Single Hole) L: 4 m x 2	GTL-191 250 A 2 m RNB80-8 welding cable FOR 7550A x 2
	GTL-179 1000 A Copper braided connector(Double Hole) L: 1 m x 2	GTL-192 250 A 4 m RNB80-8 welding cable FOR 7550A x 2

Specifications							
Range	Shunt Value	*DC Accuracy		*AC Accuracy ≤ 400Hz		Max input DC/AC rms	Output Voltage
		Typ.	Max.				
1000 A	0.0001 Ω	0.02 % of Reading + 0.01% of Range	0.05 % of Reading + 0.05% of Range	50 Hz to 200 Hz	0.1 % (Reading + Range)	1000 A	1000 A / 0.1V
				201 Hz to 300 Hz	0.2 % (Reading + Range)		
				301 Hz to 400 Hz	0.4 % (Reading + Range)		
200 A	0.001 Ω	0.02 % of Reading	0.04 % of Reading	0.10 % of Reading		250 A	200 A / 0.2V
20 A	0.01 Ω	0.01 % of Reading	0.02 % of Reading	0.10 % of Reading		30 A	20 A / 0.2V
2 A	0.1 Ω	0.01 % of Reading	0.02 % of Reading	0.10 % of Reading		4 A	2 A / 0.2V
0.2 A	1 Ω	0.01 % of Reading	0.02 % of Reading	0.10 % of Reading		0.4 A	0.2 A / 0.2V

5 1/2 Digit Ampere Meter					
Range	Resolution	*DC		*AC(50Hz to 400 Hz)	
		Accuracy ± (% of reading + of Range)			
		Typ.	Max.		
1000 A	0.01 A	0.04+0.02	0.1+0.05	50 to 200 Hz	0.5+0.1
				201 to 300 Hz	0.5+0.2
				301 to 400 Hz	0.5+0.4
200 A	0.001 A / 0.01A	0.04+0.01	0.08+0.01	0.5+0.05	
20 A	0.0001 A / 0.001A	0.02+0.01	0.04+0.01	0.5+0.05	
2 A	0.01 mA / 0.1mA	0.02+0.01	0.04+0.01	0.5+0.05	
0.2 A	0.001 mA / 0.01mA	0.02+0.01	0.04+0.01	0.5+0.05	

*AC accuracy is limited to 100A.

*AC input : Range 0.2A, 2 A, 20 A, 200 A ≥ 5 % of Range

Range 1000A ≥ 10 % of Range

*The specifications apply when the 1000A is powered on for at least 30 minutes

*The typical not apply when 20A, 200A, 1000A 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 6 1/2 D.V.M. away from shunt at least 120cm.

General information's :	
Temperature range:	0 °C to 40 °C; stated accuracy for 1 year at 23C±2 °C.
Temperature coefficient :	Range 0.2A - 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)
	Range 1000A Less than 0.005% per °C (20 °C to 40 °C)

AC INPUT	LINE	115 Vac/ 230Vac ± 10%
	FREQUENCY	50/60 Hz
	MAX. POWER CONSUMPTION	25W
Dimension(HxWxD)	89 mm x 440 mm x 370 mm	
WEIGHT	13.5Kg	

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