HIU-1000-B High precision AC/DC tester

High-precision AC/DC tester is ideal for current measurement in the fields of power, metrology, military, manufacturing, scientific research, etc.

Product photo



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Technical Characteristics(RD-reading，RG-range)

■ Voltage measurement

AC voltage measuring limit	14V、35V、71V、141V、354V、707V；(RG automatically switched)
Measuring range	(0~110%)RG
Accuracy	0.05%RD (20V ≤ U ≤ 750V) 0.1%RD (1V ≤ U ≤ 20V)
Resolution	0.01%RG

DC voltage measuring limit	10V、20V、50V、100V、200V、500V、1000V；(RG automatically switched)
Measuring range	(0~110%)RG
Accuracy	0.02%RD (10V ≤ U ≤ 1100V) 0.05%RD (1V ≤ U ≤ 10V)
Resolution	0.005%RG

■ Current Measurement

AC measuring limit	14A、28A、71A、141A、354A、707A；(RG automatically switched)
Measuring range	(0~110%)RG
Accuracy	0.05%RD (10A ≤ I ≤ 750A) 0.05%RD (500mA ≤ I ≤ 10A)；(Accessories needed)
Resolution	0.01%RG

DC measuring limit	40A、100A、200A、400A、1000A；(RG automatically switched)
Measuring range	(0~110%)RG
Accuracy	0.02%RD (20A ≤ I ≤ 1100A) 0.02%RD (500mA ≤ I ≤ 20A)；(Accessories needed)
Resolution	0.005%RG

■ Power measurement

AC power accuracy	0.05%RD (20V ≤ U ≤ 750V，10A ≤ I ≤ 750A) 0.1%RD (1V ≤ U ≤ 20V，500mA ≤ I ≤ 10A)
DC power accuracy	0.02%RD (10V ≤ U ≤ 1100V，20A ≤ I ≤ 1100A) 0.05%RD (1V ≤ U ≤ 10V，200mA ≤ I ≤ 20A)

■ Phase measurement

Phase measurement range	0.00°~359.99°
Phase measurement accuracy	0.02° (20V ≤ U ≤ 750V，10A ≤ I ≤ 750A)
Phase measurement resolution	0.001°

■ Frequency Measurement

Measuring range	40Hz~70Hz
Accuracy	0.01Hz
Resolution	0.001Hz

Other technical characteristics

Operating supply voltage range	AC85V～265V，50/60Hz
Dimensions	300mm×185mm×100mm (Length×Width×Depth)
Weight	1.5Kg

Connection system

■ Connection1（DB9 Male Terminal）

Pin	1	2	3	4	5	6	7	8	9

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Definition	RS485_A	RS232_TX	RS232_RX	RS485_B	GND	N.C	N.C	N.C	N.C

■ Explanation on the photo below



Product characteristics

■ High precision measurement

The basic precision is shown as below

DC current	0.02%RD
AC current	0.05%RD
DC voltage	0.02%RD
AC voltage	0.05%RD

■ Compatible with AC and DC

Capable of analyzing and showing DC current and AC current



- Capable of multi-range measuring

The detector is equipped with multi-range current. Each range can be measured to 110% of the upper limit, and the range is automatically switched.



- Expandable measurement range

The measurement range can be extended by adding a toroidal ring.



Toroidal ring

- User interface easy to use

  The simple and straightforward operation interface, configured with a 4.3-inch color graphics LCD, is an easy-to-understand user interface based on the touch panel.

