

Model

AX-115BUltra low resistance,
High accuracy Digital Low-Ohm Meter

Ideal for automatic measurement of ultra-low resistor



- Most suitable to measure ultra-low resistance for shunt-resistor, etc.
- Measurement not to influenced by thermal electro motive force.
- Impressed the measuring current at pulse interval, in order to reduce abrasion of measuring terminal.
- Contact-check is equipped as standard function.
- Measuring range: 0.0000mΩ ~ 1500.0Ω
- Available to measure the percent the set reference value: 0.5mΩ ~ 1kΩ ±50.00% [Minimum resolution of 50n ohm]
- GP-IB/RS-232C/Centronics output available. (Option)
- Comparison result by built-in comparator is open-collector output and displayed as LO, GO, HI by LED and buzzer.
- Measuring current/voltage-check are built-in as standard function.

Specifications

Measuring range and Accuracy (at23°C±5°C)

Range	Measuring range	Resolution	Measuring current	Accuracy [Slow]
1mΩ	0.0000mΩ ~ 1.5000mΩ	0.1 μΩ	3A	within ±(0.01%rdg+1 μΩ) ±3digit [Average] ±4digit [Slow] ±5digit [Fast]
10mΩ	0.000mΩ ~ 15.000mΩ	1 μΩ	1A	
100mΩ	0.00mΩ ~ 150.00mΩ	10 μΩ	100mA	
1Ω	0.0000Ω ~ 1.5000Ω	100 μΩ		
10Ω	0.000Ω ~ 15.000Ω	1mΩ	10mA	
100Ω	0.00Ω ~ 150.00Ω	10mΩ	1mA	
1kΩ	0.0Ω ~ 1500.0Ω	100mΩ	refer to the above	
%	0.5mΩ ~ 1kΩ / ±50.00%	0.01% [50nΩ]		

Open-circuit voltage of measuring terminal	about 4V
Measuring method	4-terminal measurement [contact check]
Sampling time	[Free running mode] 2~10 times per second [Remote start mode] FAST about 17.5msec./SLOW about 29.8msec. [Single Mode]
Comparator set range	4½ Digit (15000) both for high and low limit, % range: 50.00% [low: 0~ -50.00%, high: 0~ +50.00%]
Indication of comparator's comparison result	LED indication LO/GO/HI and buzzer
Control signal	Remote start input: "L" [OV] → "H" [DC12V] start
	Remote hold input: Open and "H" [DC12V]: Free run / "L" [OV]: Hold
	comparison output [LO/GO/HI]: open collector: max.40V, 100mA
	contact error output [CE]: open collector: max.40V, 100mA
	end of comparison output [EOC]: open collector: max.40V, 100mA
Operation condition	[Temp.] +5°C ~ +40°C [Humidity] less than 85%
Power supply	AC100V~240V selectable, 50/60Hz, about 60VA
Outer dimension	about 250 (W) × 99 (H) × 300 (D) mm (excluding protruding parts such as rubber legs, etc.)
Weight	about 3.4kg

The Outline

AX-115B high accuracy Dc digital Low-ohm meter can measure ultra low resistance from 0.0000mΩ to 1500.0Ω (percentage measurement: 0.5mΩ ~ 1.0000kΩ ±50.00%) ultra fast, high accuracy.

Either one of GP-IB, RS-232C or centronics output interface could be equipped as an option.

Furthermore, contact check function is standard equipment: When measure 4 terminals, either one contact failure occurs, outputs judgment signal and contact Error signal all together.

Option

• GP-IB Interface • RS-232C Interface • BCD output

• Printer output (8 bit parallel Centronics)

• Printer cable

*Either one interface can built-in the option above.