

Model

AX-125A

High Speed, 1kHz, Digital MILLI OHM Meter,
Built-in Limit Comparator

Best suited for measurement of contact resistance such as relay, switch, and connector and internal resistance of battery, condenser



- Low test current
- Minimum resolution:10 μ Ω
- Maximum measurement range: 199.9 Ω
- Measurement signal: 1kHz
- 4-terminal measurement
- Built-in Contact check
- By either GP-IB or RS-232C, all the functions are remote-controllable (Option)
- Analog output measured value: DC0~1.999V

Specifications

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

Range	Measurement range	Resolution	Measured current	Accuracy (SLOW)	Accuracy (FAST)
20m Ω	0.00~19.99m Ω	10 μ Ω	5mA	± (0.5%+2digit)	± (0.5%+5digit)
200m Ω	0.0~199.9m Ω	100 μ Ω	500 μ A	± (0.3%+2digit)	± (0.3%+3digit)
2 Ω	0.000~ 1.999 Ω	1m Ω	50 μ A	± (0.2%+1digit)	± (0.2%+2digit)
20 Ω	0.00~ 19.99 Ω	10m Ω	50 μ A		
200 Ω	0.0~ 199.9 Ω	100m Ω	5 μ A		

Test signal	1kHz±0.1% sine wave/20mV(MAX)
Measuring method	4-terminal measurement [contact check]
Sampling time	FAST:40msec. (approx.)/SLOW:140msec. (approx.)
	[In case of measurement with contact check function, measuring time is longer by about 5 msec.]
Zero compensation	50 counts in each range for both
Measuring terminals DC max. voltage	DC 50V
Range changeover	Auto Manual (20m Ω ~200 Ω)
Indication of comparator's comparison result	LED indication LO/GO/HI and buzzer
Control signal	Remote start signal
	Remote hold signal
	comparison output [LO/GO/HI]: open collector
	contact error output [CE]: open collector
	end of comparison output [EOC]: open collector
Operation condition	[Temp.] +5°C~+40°C [Humidity] less than 85%
Power supply	AC100V~240V selectable, 50/60Hz, less than 50VA
Outer dimension	about 250 (W) ×112 (H) ×335 (D) mm (excluding protruding parts such as rubber legs, etc.)
Weight	about 3.0kg

The Outline

High speed digital 1kHz m Ω Meter, Model AX-125A is capable of measuring very low resistance by alternative current signal of 1kHz in high speed. The measured value is compared with the set value by a built-in digital comparator and the comparison result is indicated by LO, GO, HI display and a buzzer, and output by open collector.

The instrument is suitable for contact resistance measurement of relay,switches, connectors, etc., internal resistance measurement of batteries, E.S.R. measurement of capacitor, and resistance of temperature transducer.

As the synchronous detecting method is applied, the instrument measured the pure resistance only even when series inductance exists. Because only less than 20mV peak voltage is impressed even when the terminals are opened, destroy of oxidized membrane can be avoided.

Option

● GP-IB Interface

● RS-232C Interface

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