

Model

AX-1142N

Low Cost, High accuracy,  
Digital DC OHM Meter

Contact-check, thermoelectromotive force cancellation-circuit are standard equipment, available to percentage measurement



- Measuring range : 0.00mΩ ~ 15.000MΩ
- 4-terminal measurement
- Available to measure the percent the set reference value:  
5mΩ ~ 10MΩ ± 50.0% [Minimum resolution : 5 μΩ]
- Temperature compensation [0ppm/°C ~ 9999ppm/°C]  
(Sensor : Option)
- Measurement not to influenced by thermoelectromotive force.
- Contact-check is equipped as standard function
- 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.

Specifications

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

Range	Measuring range	Resolution	Measuring current	Accuracy
100mΩ	0.00mΩ ~ 150.00mΩ	10 μΩ	100mA	within ±0.05% of rdg ±3digit
1000mΩ	0.0mΩ ~ 1500.0mΩ	100 μΩ	10mA	
10Ω	0.000Ω ~ 15.000Ω	1mΩ	10mA	within ±0.025% of rdg ±3digit
100Ω	0.00Ω ~ 150.00Ω	10mΩ	5mA	
1kΩ	0.0Ω ~ 1500.0Ω	100mΩ	5mA	
10kΩ	0.000kΩ ~ 15.000kΩ	1Ω	500 μA	
100kΩ	0.00kΩ ~ 150.00kΩ	10Ω	50 μA	
1000kΩ	0.0kΩ ~ 1500.0kΩ	100Ω	5 μA	
10MΩ	0.000MΩ ~ 15.000MΩ	1kΩ	0.5 μA	within ±0.05% of rdg ±3digit
%	5mΩ ~ 10MΩ ± 50.0%	0.1% [5 μΩ]	Refer to the above	within ±0.2% ±1digit

Open-circuit voltage of measuring terminal	100mΩ ~ 100Ω range : less than 5V
	1kΩ ~ 10MΩ range : less than 15V
Measuring method	4-terminal measurement (Contact check available)
Sampling time	[Free running mode] 5 times per second ~ 10 times/sec.
	[Remote start mode] about 15msec. ~ 30msec.
Comparator set range	[Ω measurement] 4½ digit, both HI and LO (15000)
	[% measurement] 50.0% (LO : 0 ~ - 50.0%, HI : 0 ~ + 50.0%)
Indication of comparator's comparison result	LED indication LO/GO/HI and buzzer
Control signal	Input : Remote start input Remote hold input
	Output : comparison signal (LO/GO/HI) contact error signal (CE) Completion of the measurement signal (EOC)
Operation condition	[Temp.] +5°C ~ +40°C [Humidity] less than 85%
Power supply	AC100V ~ 240V selectable, 50/60Hz, about 30VA
Outer dimension	about 260 (W) × 90 (H) × 250 (D) mm (excluding protruding parts such as rubber legs, etc.)
Weight	about 2.6kg

The Outline

Model AX-1142N, digital ohmmeter, can easily measure every resistance from 0.00mΩ to 15.000MΩ, it also possible to percentage measurement for the setup standard value.

Built -in comparator, it can be informed the judgment result by LED indication for LO, GO, HI, and buzzer, also can be printed out.

Option	● GP-IB Interface   ● RS-232C Interface	● Printer cable
	● Printer output (8 bit parallel Centronics)	
	*Either one interface can built-in the option above.	