

Model

AX-175A**High Speed and High Accuracy Type
Digital Resistance Checker**

Best Suitable for D, F, G, J, K classes of resistance, and coating conveyor of axial type resistor



- Fast measurement (FAST: about 2.1msec. [60Hz] / 2.5msec. [50Hz])
- Measuring range: 0~999mΩ and 0.01Ω ~ 99.9MΩ
- 4 Terminal Measurement less than 0~99.9kΩ, 2 Terminal Measurement (over 100kΩ)
- Available to percentage measurement by digital setup for standard resistance value
- Number of non-defective products' digital counter is built-in
- Contact-check function is selectable from premeasurement/postmeasurement/OFF
- Shift outputs and solenoid power outputs (DC24V 1A)
- Standard equipments of check circuit for measuring current and abnormal voltage

Specifications

Measuring range and Accuracy (at 23°C ± 5°C)

Range	Measuring range	Measuring current	Accuracy		Indication range
			SLOW	FAST	
1Ω	0.01Ω ~ 0.999Ω	200mA	within ±α ± 2digit	within ±β ± (3+n) digit	±9.99%
10Ω	1Ω ~ 9.99Ω	100mA	within ±0.03% ± 1digit	within ±0.03% ± (2+n) digit	
100Ω	10Ω ~ 99.9Ω	10mA	within ±0.02% ± 1digit	within ±0.02% ± (2+n) digit	
1kΩ	100Ω ~ 999Ω				
10kΩ	1kΩ ~ 9.99kΩ	1mA	within ±0.04% ± 1digit	within ±0.1% ± (2+n) digit	
100kΩ	10kΩ ~ 99.9kΩ	100μA		within ±0.4% ± (2+n) digit	
1MΩ	100kΩ ~ 999kΩ	10μA	within ±0.2% ± 2digit	-----	
10MΩ	1MΩ ~ 9.99MΩ	1μΩ		-----	
100MΩ	10MΩ ~ 99.9MΩ	0.1μA	-----	-----	
	mΩ CHECK (0~999mΩ)	100mA	within ±0.15% ± 1digit	within ±0.2% ± 2digit	

※ α: (500/setup value mΩ) × 0.01%, β: (500/ setup value mΩ) × 0.02%, n: when measuring time is F1, n=1, when measuring time is F2, n=0

Measuring time	Power source frequency	Remote start			Free running	
		SLOW	FAST-1 (F1)	FAST-2 (F2)	SLOW	FAST
	60Hz	about 16.7msec.	about 2.1msec.	about 4.2msec.	30 times/sec.	30 times/sec.
50Hz	about 20.0msec.	about 2.5msec.	about 5msec.	25 times/sec.	25 times/sec.	

※ Judgment time (from input start signal to output EOC signal) adds about 1.5msecond for the measuring time above (slightly differ from a range)

※ When before contact check, it adds about 3.5msecond, and adds about 0.7msecond after contact-check for the judgment time above.

Open-circuit voltage of measuring terminal	less than 15V
Measuring method	2 Terminal Measurement (More than 100kΩ) 4 Terminal Measurement (less than 99.9kΩ)
Setting range for measurement value	Both upper and lower limit ±0.00% ~ ±9.99% In a case of mΩ CHECK: 000mΩ ~ 999mΩ
Operation condition	[Temp.] 5°C ~ +40°C [Humidity] less than 85%
Power supply	AC100V ~ 240V selectable, 50/60Hz, about 40VA
Outer dimension	about 333 (W) × 85 (H) × 245 (D) mm (excluding protruding parts such as rubber legs, etc.)
Weight	about 3.5kg

The Outline

AX-175A can easily measure a wide range of resistance from 0.01Ω to 99.9MΩ, ultra fast speed, and high accuracy.

The unit is indicated the measured value as a digital and outputs signal outside to judge HI, GO, LO decision. It can be switched a measuring speed, selectable from two types of FAST, a type of SLOW.

Contact-check function as a standard equipment: When measure 4 terminals, either one contact failure occurs, judges a defect, outputs a defective signal with C.E (Contact Error) signal outside regardless of its measured value at the same time.

The behavior of contact-check is selectable from premeasurement/postmeasurement/OFF.

Besides, a checking circuit to observe an abnormal measuring current always has set, and outputs NG judgment when terminal trouble of contact condition occurred during measurement.

Shift circuit, solenoid power supply corresponds to DC24V (high speed operation can be by setup), and quality product counter are built in.

Option

● Contact check

● SHIFT Solenoid power supply (DC12V 2A)