

Model

AX-150A

High Speed and High Accuracy Type
Digital Resistance Checker

Best Suitable for sorting machine such as G, J, K, and M class, chip, melf, lead type resistor of sorting machine, taping machine, and coating conveyor



- Fast measurement (FAST): about 2.1msec. [60Hz]/2.5msec. [50Hz]
- Measuring range: 0~999mΩ and 0.01Ω ~ 99.9MΩ
- Display shows percentage indication by digital setting for a standard resistance value
- HI/GO/LO output installing with digital comparator
- Contact-check function (option) is selectable from premeasurement/postmeasurement/OFF
- Shift output and solenoid power source output (option)
- Measuring current/voltage-check are built-in as standard function.

Specifications

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

Measuring range	Measuring current	Accuracy		Indication range
		SLOW	FAST	
0.1Ω ~ 0.999Ω	100mA	within ±α ±0.2% ±1digit	within ±β ±0.2% ±(2+n) digit	±99.9%
1Ω ~ 9.99Ω	50mA	within ±0.2% ±1digit	within ±0.2% ±(2+n)digit	
10Ω ~ 99.9Ω	5mA			
100Ω ~ 999Ω				
1kΩ ~ 9.99kΩ	0.5mA			
10kΩ ~ 99.9kΩ	50μA			
100kΩ ~ 999kΩ	5μA			
1MΩ ~ 9.99MΩ	0.5μA	within ±0.2% ±2digit	within ±0.4% ±(2+n) digit	
10MΩ ~ 99.9MΩ	0.05μA	within ±0.2% ±2digit	-----	-----
mΩ CHECK (0~999mΩ)	50mA	within ±0.2% ±1digit	within ±0.2% ±2digit	0~999mΩ

※ 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 per second
50Hz	about 20.0msec.	about 2.5msec.	about 5msec.	25 times per second	25 times per second	

※ 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	±00.0% ~ ±99.9% both for high and low limit In a case of mΩ CHECK: 000mΩ ~ 999mΩ
Operation condition	[Temp.] 5°C ~ +40°C [Humidity] less than 85%
Power supply	AC100V ~ 240V switchable, 50/60Hz, about 50VA
Outer dimension	about 333 (W) × 85 (H) × 245 (D) mm (excluding protruding parts such as rubber legs, etc.)
Weight	about 2.8kg

The Outline

AX-150A can measure a wide range of resistance from 1mΩ to 99.9MΩ, ultra fast speed, high accuracy. The unit can be shown the measured value as a digital indication, and also outputs a signal outside to judge HI/GO/LO. It can be switched a measuring speed, selectable from 2 types of FAST, a type of SLOW.

The unit can be equipped Contact-check function as an option: When measures 4 terminals, if either one occurs contact failure, judges a detect regardless of its measured value, and outputs failure signal outside and C.E. (Contact-check error) signal all together.

The behavior of Contact-check is selectable from premeasurement/postmeasurement/OFF with a switch of a behind panel.

Also it sets [a checking circuit of an abnormal measuring current] has always watching a measurement current, outputs NG judgment when terminal trouble of contact condition occurred during measurement.

Either shift output-solenoid power supply or BCD date can be placed as an option.

- Contact-check
- Shift output (Built-in, DC24V 1A/DC12V 2A solenoid power)
- BCD parallel out

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

オプション