Model

AX-162D

Ultra-high Speed and High Accuracy, Key Switch Type Digital Resistance Checker

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

- Ultra-high speed:0.7 msec. [TYP]
- High accuracy and high stability by the measuring method rejected thermoelectromotive force.
- High stability by the improvement of noise immunity, isolated curcuit between analog part and digital part.
- Available to make the ultra-high speed and high stable measurement by the setting function of average time on measuring value for each range.
- Range of measurement for absolute value: 0.00mΩ～200.00MΩ for %:5mΩ～109MΩ [±99.99%]
- Available to select the function for contact check before or after the measurement, or function of non-contact check.
- RS-232C and Centronics interface are built-in as standard equipment. [GP-IB is option]
- Printer output as standard equipment. (Centronics)
- Transfer function of Setting data is built-in as standard equipment. (Available to transfer the same setting data to another set of AX-162D)
- The checking circuit of the abnormal measuring current and voltage is built-in.

Specifications

※Measuring range and Accuracy (at23℃±5℃), 180 days after calibration [In the case of 1 year after calibration is 1.5 times]

Measuring range	Setting range of standard value	Measuring current	Accuracy	
			SLOW	FAST
100mΩ	5mΩ～ 109mΩ	100mA	within ±0.02%±2α±2d	within ±0.03%±3α±2±[2/(1+n)] d
1Ω	109.1mΩ～ 1.09Ω	100mA	within ±0.02%±α±1d	within ±0.02%±α±2d±[2/(1+n)] d
10Ω	1.091Ω～ 10.9Ω	50mA		
100Ω	10.91Ω～ 109Ω	10mA	within ±0.02%±1d	within ±0.02%±2d±[1/(1+n)] d
1kΩ	109.1Ω～ 1.09kΩ	5mA		
10kΩ	1.091kΩ～ 10.9kΩ	0.5mA		
100kΩ	10.91kΩ～ 109kΩ	50μA		
1MΩ	109.1kΩ～ 1.09MΩ	5μA		within ±0.05%±2d±[1/(1+n)] d
10MΩ	1.091MΩ～ 10.9MΩ	0.5μA	within ±0.03%±1d	within ±0.2%±4d±[1/(1+n)] d
100MΩ	10.91MΩ～ 109MΩ	0.05μA	within ±0.1%±2d	――――

※d: digits, n=integral time(msec), when percentage measurement: α=(100/standard setup value mΩ)×0.01%, when absolute value measurement: α=0(±1d)
On FAST, the accuracy is with fully shielded

Measuring time	Remote start		Free running	
	SLOW	FAST	SLOW	FAST
	AC1 period +about 0.7msec. ～about 400msec.	about 0.7msec. ～about 400msec.	about 30 times/sec. ～about 25 times/sec.	about 60 times/sec. ～about 50 times/sec.

EOC [End of comparison] pulse width	1～250msec. or continuative
Measuring method	2 or 4-terminal measurement
Setting range for judgment value	% Measurement: ±99.99% Absolute measurements: 00000～20000
Operation condition	[Temp.] 5℃～+40℃ [Humidity] less than 85%
Power supply	AC85V～265V, 50～60Hz, about 50VA
Outer dimension	about 333 (W) ×99 (H) ×300 (D) mm (excluding protruding parts such as rubber legs, etc.)
Weight	about 3.8kg

The Outline

AX-162D can measure a wide range of resistance from 0.00mΩ to 200MΩ, ultra fast speed, high accuracy.
The unit is built microprocessor to judge the measured value for HI/GO/LO decision, outputs a signal outside.
The measured value is indicated as a deviation value of ±99.99%, or resistance value(max.20000 count)
It can be switched a measuring speed, both FAST and SLOW can set an integral time each range.
Contact-check function as a standard equipment: When measure 4 terminals, either one occurs contact failure, judges H decision regardless of its measured value,and outputs HI signal with C.E (Contact Error) signal outside at the same time. The Contact-check is selectable from premeasurement/postmeasurement/OFF.
Besides, a check function to observe the measuring electrical current/electrical voltage always has set, when bad contact situation occurs during measurement,outputs to judge NG decision. Printed-out(based on centronics),RS-232C interface, and setup data transfer functions are equipped as standard. For printed-out can be memorized 10,000 of the measuring data, the unit can be measured even though during printing out. Besides it also can be printed out a result of a statistical analysis data for arbitrary units of its measuring data.
RS-232C (GP-IB is an option) can be set measurement conditions such as output the measuring data, standard resistance or limit value, and others.
The function of transfers the setup data can easily and quickly transfers another AX-162D for the same value of a range, standard, limit, is very useful when use two units together (joint cable is sold separately)
Besides, for setup of a measuring range to handle a key of front panel is only put in a standard resistance value to select automatically an appropriate range built in microprocessor so as to remove the burden of the setup a range.
Moreover, a content of the setup keeps by battery backup even the power source OFF.

Option

- GP-IB Interface
- Solenoid power supply DC24V 1A/DC12V 2A
- Data transfer cable