

Model **AE-162D** Ultra-high Speed and High Accuracy, Key Switch Type Digital Resistance

Optimum for the on a sorting machine, taping machine and painting conveyor for chip, MELF and lead type resistor of D,F,G,J,K and M class.

- High stability by the improvement of noise immunity for the isolated circuit between analog circuit and digital circuit.
- This device is correspond to the minimum chip. (Low measurement power force)
- Ultra-high speed : 0.7msec. [TYP]
- High accuracy and high stability by the measuring method rejected thermoelectromotiv force.
- High stability by the improvement of noise immunity.
- Available to make the ultra-high speed and stable measurement by the setting function of average on measuring value for each range.
- Range of measurement for absolute value : $0.00\text{m}\Omega \sim 200.00\text{M}\Omega$
for % : $5\text{m}\Omega \sim 109\text{M}\Omega$ [$\pm 99.99\%$]
- 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-1B is option]
- Transfer function of setting data is built-in as standard equipment.
(Available to transfer the same setting data to another set of AE-162D)
- The checking circuit of the abnormal measuring current and voltage is built-in.



AEMIC CORPORATION,

Model **AE-162D** Ultra-high Speed and High Accuracy, Key Switch Type Digital Resistance Checker

SPECIFICATIONS

Measuring range and Accuracy(at 23°C±5°C)、180days after calibration [1year after calibration : 2times]

Measuring Range	Test Current	Accuracy*	
		SLOW	FAST
5mΩ ~ 100mΩ	100mA	within±0.02%±2α±2d	within±0.03%±3α±2d±[2/(1+n)]d
100.1mΩ ~ 1Ω	100mA	within±0.02%±α±1d	within±0.02%±α±2d±[2/(1+n)]d
1.001Ω ~ 10Ω	50mA		
10.01Ω ~ 100Ω	10mA	within±0.02%±1d	within±0.02%±2d±[1/(1+n)]d
100.1Ω ~ 1kΩ	5mA		
1.001kΩ ~ 10kΩ	0.5mA		
10.01kΩ ~ 100kΩ	50μA		within±0.05%±2d±[1/(1+n)]d
100.1kΩ ~ 1MΩ	5μA		
1.001MΩ ~ 10MΩ	0.5μA	within±0.03%±1d	within±0.2%±4d±[1/(1+n)]d
10.01MΩ ~ 109MΩ	0.05μA	within±0.1%±2d	---

d : digit n : Averaging time(msec.), α=[100/setting value(mΩ)]×0.01%, In case of the measurement of absolute value, add ±1digit,

* The above accuracy is under the condition shielded completely.

Test terminal open voltage	below 15V
EOC[End of comparison]pulse width	1 ~ 250msec. or continuative
Measuring method	2 or 4 terminal measurement
Comparator set range	4 1/2 digit(20000) both for high and low limit / %range:±99.99%
Operation condition	Temp.:0°C~+50°C、 Humidity:below 80%
Power supply	AC85V~265V、 50~60Hz、 about 50VA
Outer dimension	333(W)×99(H)×300(D)mm [excluding protruding parts such as rubber legs, etc.]
Weight	about 3.5kg

Measuring time

Remote start		Free running	
SLOW	FAST	SLOW	FAST
About 18msec.~400msec.	About 0.7msec.~400msec.	About 30~2times/sec.	About 60~2times/sec.

Option

● GP-IB
● Data cable
● Short termination(Zero ohm standard resistor)

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