

**Model AE-172E** High Speed and High Accuracy, Key Switch Type Digital Resistor Checker

Optimum for the on a coating conveyor for MELF and axial type resistor of D,F,G,J,K and M class.

- Shift output with built-in solenoid power source.【DC12V(2A)/24V(1A)/pulse mode(2A)】
- Built-in GO total counter.
- High accuracy and high stability by the measuring method rejected thermoelectromotiv force.
- High stability by the improvement of noise immunity.
- Available to make the high speed and stable measurement by the setting function of average 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-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-172E)
- The checking circuit of the abnormal measuring current and voltage is built-in.



**AEMIC CORPORATION,**

# Model AE-172E High Speed and High Accuracy, Key Switch Type Digital Resistance Checker

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## 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		
100.1kΩ ~ 1MΩ	5μA	within±0.03%±1d	within±0.05%±2d±[1/(1+n)]d
1.001MΩ ~ 10MΩ	0.5μA		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%
GO Total Counter	8 Figures(0~99999999)
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
Power line one cycle+7.5msec.~408msec.	About 0.7msec~408msec.	About 5~2times/sec.	About 10~2times/sec.

### Option

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

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