

Model **AE-173E** High Accuracy, Key Switch Type Digital Resistor Checker

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

- 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 thermoelectromotive 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 ~ 125.00MΩ
for % : 10mΩ ~ 100MΩ 【±9.999%/-99.99%~+25.00%】
- 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】
- Transfer function of setting data is built-in as standard equipment.
(Available to transfer the same setting data to another set of AE-173E)
- The checking circuit of the abnormal measuring current and voltage is built-in.



AEMIC CORPORATION,

Model **AE-173E** High Accuracy, Key Switch Type Digital Resistance Checker

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

SPECIFICATIONS

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

Measuring Range	Test Current	Accuracy*		
		SLOW[Hi-Reso.]	SLOW[Lo-Reso.]	FAST[Lo-Reso.]
5mΩ ~ 100mΩ	180mA	within±0.01%±α±10d	within±0.02%±α±2d	±0.03%±2α±3d±[2/(1+n)]d 以内
100.1mΩ ~ 1Ω	180mA	within±0.005%±α±3d	within±0.02%±α±1d	±0.02%±α±2d±[2/(1+n)]d 以内
1.001Ω ~ 10Ω	90mA			
10.01Ω ~ 100Ω	18mA	within±0.005%±1d	within±0.02%±1d	±0.02%±2d±[1/(1+n)]d 以内
100.1Ω ~ 1kΩ	9mA			
1.001kΩ ~ 10kΩ	0.9mA			
10.01kΩ ~ 100kΩ	90μA	within±0.007%±1d	±0.03%±1d 以内	±0.05%±2d±[1/(1+n)]d 以内
100.1kΩ ~ 1MΩ	9μA			
1.001MΩ ~ 10MΩ	0.9μA	within±0.02%±10d	±0.03%±1d 以内	±0.2%±4d±[1/(1+n)]d 以内
10.01MΩ ~ 100MΩ	0.09μA	within±0.1%±20d	±0.1%±2d 以内	---

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: ±9.99% / -99.99~+25.00%
GO Total Counter	8 Figures(0~99999999)
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
Power line one cycle+7.5msec.~408msec.	About 11.5msec.~408msec.	About 5~2times/sec.	About 10~2times/sec.

Option

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

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