AE·MIC
AEMIC CORPORATION,

Model AE-1652E Wide range.High Accuracy and High Speed, Digital Resistance Checker

A wide range from low resistor to high resistor measurement is achieved
by the highly precise and wonderful speed
Optimum for the on a sorting machine, taping machine and painting conveyor
For chip MELF and lead typs resistor of B,C,D,F,G,K and M class

characteristic

■Ultra-high accuracy and ultra-high stability by the measuring method rejected thermoelectromotive force.

■High stability by the improvement of noise immunity for the isolated circuit between analog part and digital part.

■Available to make the high speed and ultra-high stable measurement by the setting function of average time on measuring value for each range.

■Range of measurement for absolute value : 0.000mΩ～125.00MΩ
for % : 5mΩ～109MΩ 【±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.

■(New functions)Contact check function while measurements(Always)
Available to improve reliable measurement.

■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-1652E)

■The checking circuit of the abnormal measuring current and voltage is built-in.

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SPECIFICATIONS

Measuring range and Accuracy (at 23℃±5℃)、90days after calibration【1year after calibration : 2times】

Range	Standerd setting range	Test Current	Accuracy			
			SLOW[Hi-Reso.]	FAST[Hi-Reso.]	Additional error1	Additional error2
10mΩ	0.500mΩ～10.900mΩ	1A	Whith in±0.010%±4×β±10d	±0.010%±4×β±15d±[4/(1+n)]d	±(40×γ)	
100mΩ	5.00mΩ～109.00mΩ	1A *100mA	Whith in±0.010%±β±5d	Whith in±0.010%±2×β±10d±[4/(1+n)]d	±(4×γ)	±15×(β+2×γ)
1Ω	0.0500Ω～1.0900Ω	100mA *10mA	Whith in±0.010%±β±5d	Whith in±0.010%±β±10d±[2/(1+n)]d		±6×(β+3×γ)
10Ω	0.500Ω～10.900Ω	50mA *5mA			—	±5×(β+γ)
100Ω	5.00Ω～109.00Ω	10mA *5mA	Whith in±0.010%±β2d	Whith in±0.010%±β±10±[1/(1+n)]d	—	
1kΩ	0.0500kΩ～1.090kΩ	5mA			—	—
10kΩ	0.500kΩ～10.900kΩ	0.5mA			—	—
100kΩ	5.00kΩ～109.00kΩ	50μA			—	—
1MΩ	0.0500MΩ～1.0900MΩ	5μA		Whith in±0.025%±β10d±[1/(1+n)]d	—	—
10MΩ	0.500MΩ～10.900MΩ	0.5μA	Whith in±0.02%±β±10d	Whith in±0.1%±β±20d±[1/(1+n)]d	—	—
100MΩ	5.00MΩ～109.00MΩ	0.05μA	Whith in±0.1%±β±20d	—	—	—

d:digits n:program[12]measurement time(msec) in case of absolute varue: apply to LO-Reso(add to ±1d) *Program[18]In case of Lo current mode is ON
in case of %value:α=(100/standerd setting value 10mΩ)×0.01%, α=0
β=(range//standerd setting valu)×0.001% γ=(β/average setting value)program [17]average count

Measurement time	external start		Free running	
	SLOW	FAST	SLOW	FAST
	about 17sec.～36msec.	about 0.7msec.～23msec.	about30count/sec ～ about 5count/sec	About 60 count/sec～about 10 count/sec

Test terminalopen voltage	below 15V
EOC[Endofcomparison]pulsewidth	1～250msec. or continuative
Measuring method	2 or 4 terminal measurement
Comparator set range	% range:±9.999% ／ -99.99%～+25.00% Absolute value:00000～12500
Operation condition	temperature:0℃～+50℃、 humidity:80%below
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 3.6kg

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

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