

Model **AE-182A** Ultra-high Speed and High Accuracy DC resistance checker

Optimal for sorting machine and taping machine of D,F,G,J,K class resistance, inductor and RDC measurement of thermistor

New function

- New reliability improving method: contact-check function during measurement
- Help to improve yield by the retry function during measurement
- To achieve a about 2~2.7 times speedup while keeping the accuracy and substantially accelerating measurement speed for both low and high resistance area
- Possible to manage measurement data by attached application(for Windows)
(Data can be saved in csv)
- LAN interface as option
- Bar code(QR code)interface as option

Characteristic

- Corresponding to very small chip resistor(low power measurement)
- Super high speed(As representative value ,from START to EOC is only 0.9msec according to actual measurement)
- Realize high-accuracy and stable measurement by cancelling thermo electromotive force
- Realize ultra-high speed•high-stable measurement by the function of setting integral time for each range
- %measurement: -99.99%~+25.00%【STANDARD setting range:5m Ω ~ 109M Ω 】
- Absolute value setting: 0.00m Ω ~ 125.00M Ω
- Contact check: available to select before measurement/after measurement/OFF (Always monitor the contact statement during measurement in each statement)
- Equipped with contact-cleaning as standard function
- Equipped with RS-232C interface as standard function (GP-IB/LAN/bar code is option)
- Equipped with printout as standard function(Centronics conformity)
- Transfer function for setting data is equipped as standard (Available to automatically set and transfer the same setting data to another AE-182A,AE-162E)
- Equipped with check abnormalities function for measurement current/measurement voltage /ADC data as standard



AEMIC CORPORATION

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SPECIFICATIONS

Measuring range and Accuracy (at 23°C±5°C)、180days after calibration [1year after calibration : 1.5times]

Measuring Range	Standard Value Setting Range	Test current	Accuracy *	
			SLOW	FAST
100mΩ	5.00mΩ ~ 109.00mΩ	100mA	within±0.02%±2α±2d	within±0.03%±3α±2d±[2/(1+n)]d
1Ω	0.050Ω ~ 1.0900Ω	100mA	within±0.02%±α±1d	within±0.02%±α±2d±[2/(1+n)]d
10Ω	0.500Ω ~ 10.900Ω	50mA		
100Ω	5.000Ω ~ 109.00Ω	10mA	within±0.02%±1d	within±0.02%±2d±[1/(1+n)]d
1kΩ	0.050kΩ ~ 1.0900kΩ	5mA		
10kΩ	0.500kΩ ~ 10.900kΩ	0.5mA		
100kΩ	5.000kΩ ~ 109.00kΩ	50μA		
1MΩ	0.050MΩ ~ 1.0900MΩ	5μA	within±0.03%±1d	within±0.05%±2d±[1/(1+n)]d
10MΩ	0.500MΩ ~ 10.900MΩ	0.5μA		within±0.2%±4d±[1/(1+n)]d
100MΩ	5.000MΩ ~ 109.00MΩ	0.05μA	within±0.1%±2d	---

※ d : digit n : Averaging time(msec.), In percent measurement : α=(100/Standard Setting Value mΩ)×0.01%, In measurement of absolute value : α=0(add±1d) ※The above accuracy is under the condition shielded completely.

Measurement T i m e	External Start		Free Running	
	SLOW	FAST	SLOW	FAST
	About 17.4msec. ~ 400msec.	About 0.9msec. ~ 400msec.	About 30~2times/sec.	About 60~2times/sec.

※ Measurement speed is within accuracy guarantee range. In actual working station, to shorten measurement compared with AE-162E for all ranges

Specification

Test terminal open voltage	Below 14V
Measurement completion signal(EOC) pulse width	1~250msec. or continuative
Measuring method	2 or 4 terminal measurement capable of switching
Determination value setting range	%measurement:-99.99~25.00%, absolute value measurement:00000~12500
Operation condition	Temp. : 0°C~+50°C、 Humidity : below 80%
Power supply	AC85V~265V、 50~60Hz、 about50VA
Outer dimension	250(W)×92(H)×300(D)mm (excluding protruding parts such as rubber legs)
Weight	About 2.7kg

Price

AE-182A	● External control/O、 RS-232C、 Centronics standard	
O p t i o n	● GP-IB	
	● LAN	
	● Bar code unit (reader sold separately)	
	● Data transfer cable	
	● Short termination(Zero ohm standard resistor)	

※ As to other general-purpose option (such as tweezers probe, measurement terminal convert connector), please refer to accessory catalogue.

○The specification is subject to change without notice for improvement.

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