

Model AE-182A Industry's fastest • high accuracy Digital resistance checker

In place from the conventional standard model 162E, achieve a further improvement in productivity

Characteristic

- (New functions) 1. Contact check during measurement
(Constantly monitor of probe state during measurement)
- 2. Retry measurement functions
(When the judgment contact error, automatically re-measured at any setting)
※ Achieve a further improvement of measurement reliability and productivity.
- 3. LAN Option (In preparation)

■ Basic operation, measurement accuracy and communication command are same as previously model AE-162E

(Easy to replace from the current facilities)

■ Achieve 2 times measurement speed compare with previously model AE-162E (100mΩ, 1Ω, 100MΩ range)

	AE-162E		AE-182A	
100mΩ	6.3m sec		2.3m sec	(FAST setting)
1Ω	5.2m sec	⇒	1.8m sec	(FAST setting)
100MΩ	52 m sec		21.3m sec	(SLOW setting)

※ Measurement time between START signal to EOC signal

■ Absolute measurement : 0.00mΩ ~ 125.00MΩ

% measurement : -99.99% ~ +25.00%

■ Contact check : Before measurement / After measurement / OFF Selectable

SPECIFICATIONS

Measuring range and Accuracy (Ambient temperature 23°C±5°C) 90 days after calibration [1 year past: 2 times]

Range	STANDARD Setting range	Resolution	FAST M. time (START~EOC)	Accuracy [SLOW]	Accuracy [FAST]	M. current	Open circuit voltage
100mΩ	5.00mΩ~109.00mΩ	0.01mΩ	2.3 m sec	Within ±0.02%± 2α± 2 d	Within ±0.03%± 3α± 2 d±[2/(1+n)]d	100mA	Approx. 14V
1Ω	0.0500Ω~1.0900Ω	0.1mΩ	1.8 m sec	Within ±0.02%± α ± 1 d	Within ±0.02%± α ± 2 d±[2/(1+n)]d	100mA	
10Ω	0.500Ω~10.900Ω	1mΩ	0.9 m sec			50mA	
100Ω	5.00Ω~109.00Ω	10mΩ	0.9 m sec	Within ±0.02%± 1 d	Within ±0.02%± α ± 2 d±[1/(1+n)]d	10mA	
1kΩ	0.0500kΩ~1.090kΩ	100mΩ	0.9 m sec			5mA	
10kΩ	0.500kΩ~10.900kΩ	1Ω	0.9 m sec			0.5mA	
100kΩ	5.00kΩ~109.00kΩ	10Ω	1.1 m sec			50μA	
1MΩ	0.0500MΩ~1.0900MΩ	100Ω	1.7 m sec		Within ±0.05%± 2 d±[1/(1+n)]d	5μA	
10MΩ	0.500MΩ~10.900MΩ	1kΩ	4.7 m sec	Within ±0.03%± 1 d	Within ±0.2%± 4 d±[1/(1+n)]d	0.5μA	
100MΩ	5.00MΩ~109.00MΩ	10kΩ		Within ±0.1%± 2 d		0.05μA	

d: Digit % measurement: α = (100/STANDARD setting value mΩ) × 0.01% Absolute measurement: α = 0 (Add to ±1digit) n: Program[12]M.time (m sec)

Measurement Method	2 or 4 terminal measurement [Available to select the measuring method on each range]
Comparator set range	Absolute measurement : 00000 ~ 12500 % measurement : -99.99% ~ +25.00%
End of measurement signal (EOC)	1 ~ 250 msec. And also available set to continuity
Use environment	Temperature: 0°C~+50°C、 Humidity: Less than 85%
Interface	RS-232C and centronics (STANDARD)
Option	GP-IB and LAN (In preparation)
Power supply	AC85V~265V, 50~60Hz, Approx. 50VA
Outer demention	250(W)×92(H)×300(D)mm
Weight	Approx. 2.7kg

※ We will change the specifications of the catalogue without notice by improvement.

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