Model AE-182L Ultra-high Speed and High Accuracy DC resistance checker corresponding to fine resistor

Corresponding to ultra-fine resistor such as 03015 and 0201 and optimal for sorting machine and taping machine of D , F , G , J , K c l a s s r e s i s t a n c e , i n d u c t o r a n d R D C m e a s u r e m e n t o f t h e r m i s t o r

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 ultra-fine chip resistor (measurement power is less than 0.02W/ the release voltages between measurement terminals is below 8V)
- 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:5mΩ～109MΩ】
- Absolute value setting : 0.00mΩ～125.00MΩ
- 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-182L,AE-162E)
- Equipped with check abnormalities function for measurement current/measurement voltage

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SPECIFICATIONS

Measuring range and Accuracy (at 23℃±5℃)、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	0.0500Ω～ 1.0900Ω	100mA	within±0.02%±α±1d	within±0.02%±α±2d±[2/(1+n)]d
10Ω	0.500Ω～ 10.900Ω	30mA		
100Ω	5.00Ω～ 109.00Ω	10mA	within±0.02%±1d	within±0.02%±2d±[1/(1+n)]d
1kΩ	0.0500kΩ～1.0900kΩ	3mA		
10kΩ	0.500kΩ～10.900kΩ	0.5mA		
100kΩ	5.00kΩ～109.00kΩ	50μA		
1MΩ	0.0500MΩ～1.0900MΩ	5μA		within±0.05%±2d±[1/(1+n)]d
10MΩ	0.500MΩ～10.900MΩ	0.5μA	within±0.03%±1d	within±0.2%±4d±[1/(1+n)]d
100MΩ	5.00MΩ～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 Time	External Start		Free Running	
	SLOW	FAST	SLOW	FAST
	About17.4msec.～400msec.	About0.9msec.～400msec.	About30~2times/sec.	About60~2times/sec.

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

Specification

Test terminal open voltage	Below 8V
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℃～+50℃、　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-182L	● External control/O、RS-232C、 Centronics　standard	
Option	● 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

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

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