

MODEL AE-1152F 5A ULTRA LOW OHM

1mΩ range measurement current 5A

Optimal for measurement of ultra low resistant such as shunt resistor

Characteristic

- 1mΩ range measurement current 5A, possible to measure 1mΩ resistor or less with higher precision and improve the accuracy by 0.30% compared with AE-1152D.
- %measurement: STANDARD setting range 0.01mΩ ~ 1kΩ
: measurement range ±50.00%【minimum resolution 1nΩ】
- Absolute value measurement: 0.0000mΩ ~ 1.5000kΩ
- Possible to cancel the influence of thermal electromotive force.
- Measurement current is applied in pulse to help reduce heating of a target object and wear of measurement terminal .
- Equipped with contact check function as standard.
- Possible to add various option (only one of those can be chosen).
GP-IB / RS-232C / LAN / Centronics interface /
Bar code/ two-dimensional code reader + RS-232C interface
And data collection application for RS-232C is also attached.
- Result of comparator can be outputted in open collector output .LED display and buzzer sound are also possible.
- Measurement current / measurement voltage check circuit is equipped as standard.
- Available for shift output



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SPECIFICATION

Measuring range and Accuracy (at 23°C±5°C)

Range	Measuring range	Resolution	Current	Accuracy	
				Absolute value measurement	%measurement
1mΩ	0.0000mΩ ~ 1.5000mΩ	0.1 μ Ω	5A	Within ± (0.01%rdg+0.3 μ Ω) ±3 digit [Average]/ ±4 digit [Slow]/ ±5 digit [Fast]	<div><div>±</div><div><div><div>Range</div><div>Standard setting value</div></div>×0.01%</div><div>5</div></div>
10mΩ	0.000mΩ ~ 15.000mΩ	1 μ Ω	1A		
100mΩ	0.00mΩ ~ 150.00mΩ	10 μ Ω			
1 Ω	0.0000 Ω ~ 1.5000 Ω	100 μ Ω	100mA		
10 Ω	0.000 Ω ~ 15.000 Ω	1m Ω			
100 Ω	0.00 Ω ~ 150.00 Ω	10m Ω	10mA		
1k Ω	0.0000k Ω ~ 1.5000k Ω	100m Ω	1mA		
%	0.01mΩ ~ 1kΩ / ±50.00%	0.01%[1nΩ]	Refer to above		

- * In % measurement, accuracy of 10mΩ range or less applies in double ON and should be the reference value in double OFF.
- * α : SLOW • AVERAGE = 3 / SLOW = 4 / FAST = 5
- β : 1mΩ range = 0.2 / other range = 1

Voltage at terminals open :	Below 4V
Measuring method :	4-terminal measurement [contact check is available]
Sampling time	【Free running】 2~10times/sec. 【External start】 about 9msec~400msec.
Comparator setting range :	Absolute value measurement : 0~15000 [both for low and high limit], %measurement: low limit -50~0%, high limit : 0~+50%
Indication of comparator determination result :	LO/GO/HI, LED display and buzzer.
Control signal :	Start signal : start by "L"[0V]→"H"[DC12V]
	Hold signal : Open and "H"[DC12V] : Free run, "L"[0V] : Hold
	Determination result signal [LO/GO/HI] : open collector output max40V, 100mA
	Contact check error [CONT-E] : open collector output max40V, 100mA
Operation condition :	Termination signal [EOC] : open collector output max40V, 100mA
	【Temp.】 5°C~+40°C, 【Humidity】 below 85%
Power supply :	AC85V~265V, 50~60Hz, about 60VA
Outer dimension :	333(W)×99(H)×300(D)mm (excluding protruding parts such as rubber legs, etc.)
Weight :	About 3kg

O p t i o n	● RS-232C I/F	Only one kind of interface can be provided with the checker.
	● GP-IB I/F	
	● LAN I/F	
	● Bar code/ two-dimensional code reader + RS-232C I/F	
	● Printer output (Centronics) I/F	
	● Each cable (RS-232C, GP-IB, printer)	
	● Short termination (Zero ohm standard resistor)	

○ Specification is subject to change without notice for improvement.

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