

Model

AE-1262A

DIGITL Battery mΩ/V METER

Optimum for measuring internal resistance and voltage of batteries.



Characteristic

- Simultaneous measurement of internal resistance and voltage of batteries
- Optimum for measuring contact resistance of relays, switch connectors, etc.
- High-accurate measurement by synchronous detection method
- Measurement not influenced by thermal electromotive force
- Contact-check is equipped as standard function.
- Measuring time : 106msec[SLOW] 23.5msec[FAST]
- RS-232C, GP-IB, LAN available [optional]
- Comparison result by built-in comparator is open-collector output and displayed as LO,GO,HI by LED and buzzer.

SPECIFICATIONS

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

Voltage measuring range		Resolution	Accuracy	
-12.999V to +12.999V		1mV	±0.3%rdg±2digit以内	
Range	Measuring range	Resolution	Measuring current	Accuracy
20mΩ	0.01 to 19.99mΩ	10μΩ	100mA	Within ± (0.2%rdg+50μΩ) ±2digit [SLOW] ±3digit [FAST]
200mΩ	0.1 to 199.9mΩ	100μΩ	10mA	
2Ω	0.001 to 1.999Ω	1mΩ	1mA	
20Ω	0.01 to 19.99Ω	10mΩ	100μA	
200Ω	0.1 to 199.9Ω	100mΩ	10μA	

Note: If the reactance is significantly larger than the pure resistance of the object to be measured, the measurement may not be possible.

*The above accuracy is under the condition shielded completely.

Measuring signal	1kHz ±0.1% Voltage 1Vr.m.s(max)			
Measuring method	4 terminal measurement (synchronous detection method)			
Measuring time	Remote start		Free running	
	SLOW	FAST	SLOW	FAST
	60Hz	about 106msec	about 23.5msec	about 5 times/sec
50Hz	about 106msec	about 26.5msec	about 5 times/sec	about 12.5time/sec
Measuring response time	Within about 20msec (time until the data stabilizes after the measurement terminal contacts the sample)			
Measuring terminals max. voltage	DC±25V * Measurable voltage of batteries, etc. that have electromotive force is within ± 13V			
Comparator setting range	Resistance : 0 to 1999 Voltage : -12.999 to 12.999V			
Judgement indication	LO/GO/HI. LED by LED and buzzer			
Control signal	Start signal : start by " L " [0V]→" H " [DC12V]			
	Hold signal : Open & " H " [DC12V] : Free run, " L " [0V] : Hold			
	Judgement signal [LO/GO/HI] : open collector output max40V, 100mA			
	Contact error signal [CONT-E] : open collector output max40V, 100mA			
Analog output	Terminal signal [EOC] : open collector output max40V, 100mA			
	Resistance value output : 0V to 10V (Display value 1000 counts = 5V)			
	Resistance value output accuracy : Within ±0.3% ±30mV to the measured value			
Operation environment	Voltage output : 0V to ±12V			
	Voltage output accuracy : Within ±0.1% ±10mV			
Power supply	Temperature : +5°C to +40°C, Humidity: below 85%			
Outer dimension	AC85V to 265V, 50/60Hz, about 30VA			
Weigh	330(W)x112(H)x335(D)mm(excluding protruding parts such as rubber legs, etc.)			
Option	about 2.8kg			
	●RS-232C			Only one kind of interface can be provided with meter.
	●GP-IB			
●LAN				