

Model

AE-1644E

Ultra-High Resistance Checker

Optimum for sorting machine, taping machine and trimming machine for Chip, axial and MELF Ultra-high resistor of 5kΩ to 1.5TΩ



Characteristic

- A high-speed integration system with little errors against a noise.
[Available to make the integral time setting for each range.]
- % measurement is possible by digital setting of the standard resistance value.
- Trimming mode is possible.
- Contact-check is equipped as standard function.
- Comparison result by built-in comparator is open-collector output and displayed as LO,GO,HI by LED and buzzer.
- Equipped with RS-232C as standard. GP-IB available [optional]

SPECIFICATIONS

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

Range	Measuring range	Accuracy			
		Measuring voltage H		Measuring voltage L	
100kΩ	5.00kΩ to 150.00kΩ	15V	±0.03%±1 digit [±0.1% of rdg±1 digit]	15V	±0.03%±1 digit [±0.1% of rdg±1 digit]
1MΩ	50.0kΩ to 1500.0kΩ				
10MΩ	0.500MΩ to 15.000MΩ				
100MΩ	5.00MΩ to 150.00MΩ	100V	±0.05%±1 digit [±0.2% of rdg±1 digit]	15V	±0.3%±1 digit [±1.2% of rdg±1 digit]
1GΩ	50.0MΩ to 1500.0MΩ				
10GΩ	0.500GΩ to 15.000GΩ	100V	±0.2%±1 digit [±0.5% of rdg±1 digit]	15V	±1.2%±2 digit [±1.5% of rdg±1 digit]
100GΩ	5.00GΩ to 150.00GΩ	200V	±0.5%±2 digit [±0.8% of rdg±2 digit]	15V	±1.5%±2 digit [±2.0% of rdg±2 digit]
1TΩ	50.0GΩ to 1500.0GΩ	200V	±1%±4 digit [±1.5% of rdg±4 digit]	can not be selected	

Upper row is deviation value, parentheses are absolute value.

*The above accuracy is under the condition shielded completely.

Measuring Indication Range	Indication Range Deviation value measurement ±50.00% Absolute value measurement 500 to 15000
Measuring Method	2 terminal measurement with Contact check
Measuring time	Free running : about 20 times/sec to about 3 times/sec. External start : FAST 2.5nsec + Delay + Integration time (1msec. to 29msec.) SLOE 2.5nsec + Delay + Integration time (1 to 9 cycle) Trimming mode : about 14.4msec + Integration time + (150msec only when the judgement is HI)
Comparator setting range	Deviation value measurement : High limit/Low limit 0 to ±50% Absolute value measurement : High limit/Low limit 0 to 15000
Measurement delay time	0msec to 99msec Setting is possible per range
Contact check time	Before measurement : Measuring time + 11msec After measurement : Measuring time + 6msec
Judgement indication	HI, GO, LO, LCD display, buzzer and external signal output
Control Signal	Start signal : start by "L"[0V or short]→ "H"[DC12V or open] Hold signal : Open & "H"[DC12V or open] : Free run, "L"[0V or short] : Hold Judgement signal [LO/GO/HI] : open collector output Contact error signal [CE] : open collector output ON Termination signal [EOC] : open collector output ON
Operation environment	Temperature : +5°C to +40°C, Humidity : below 85%
Power Supply	AC85V to 265V, 50 to 60Hz, about 20VA
Outer Dimension	333(W)×99(H)×300(D)mm (excluding protruding parts such as rubber legs, etc)
Weight	about 2.5kg
Option	●GP-IB ●Printer Cable ●Short termination (Zero ohm standard resistor)