

Luminous scales

HIOKI

3451 (Single range) 2003

3452 (3 ranges)

MΩ HiTESTER

Field measuring instruments



Compact analog MΩ meter



Actual-size



ISO14001
JQA-E-90091



<http://www.hioki.co.jp/>

HIOKI company overview, new products, environmental considerations and other information are available on our website.

Easily held in one hand
Energy-saving design

■ 3451 specifications Measurement ranges (23°C±5°C, 90 %rh. or less, no condensation)

| Model | 3451 -11 | 3451 -12 | 3451 -13 | 3451 -14 | 3451 -15 |
|--|---|-----------|-----------|------------|----------|
| Insulation test voltage | 125V DC | 250V DC | 500V DC | 500V DC | 1000V DC |
| Effective max. indication | 20MΩ | 50MΩ | 100MΩ | 1000MΩ | 2000MΩ |
| Tolerance *1 | ±5% of indicated value | | | | |
| Voltage with no load | Not more than 1.2 times rated voltage | | | | |
| Min. resistance measurement value *2 | 0.125MΩ | 0.25MΩ | 0.5MΩ | 1MΩ | 2MΩ |
| Short-circuit current | 1.2mA max. | | | 0.6mA max. | |
| Center indication value | 0.5MΩ | 1MΩ | 2MΩ | 20MΩ | 50MΩ |
| Response times | ∞ to center, ∞ to 0 MΩ within 3 seconds | | | | |
| AC voltage scale Tolerance | 0 to 250V | 0 to 300V | 0 to 500V | | |
| | ±5% of maximum scale value | | | | |
| Transient voltage protection, 10 seconds | 300V AC | 360V AC | 600V AC | | 1200V AC |
| Max. rated power | 3VA (for battery check) | | | | |

*1 This is the tolerance for the first effective range. For the second effective range the value is ±10% of the indication. For 0 and infinity the tolerance is 0.7% of the scale length

*2 Resistance value to maintain rated voltage.

■ 3452 specifications Measurement ranges (23°C±5°C, 90 %rh. or less, no condensation)

| Model | 3452 -11 | | | 3452 -12 | | | 3452 -13 | | |
|--|---|--------|---------|-----------|---------|---------|----------|---------|------------|
| Insulation test voltage | 25V DC | 50V DC | 100V DC | 125V DC | 250V DC | 500V DC | 250V DC | 500V DC | 1000V DC |
| Effective max. indication | 10MΩ | 10MΩ | 20MΩ | 20MΩ | 50MΩ | 100MΩ | 50MΩ | 100MΩ | 2000MΩ |
| Tolerance *1 | ±5% of indicated value | | | | | | | | |
| Voltage with no load | Not more than 1.2 times rated voltage | | | | | | | | |
| Min. resistance measurement value *2 | 0.025MΩ | 0.05MΩ | 0.1MΩ | 0.125MΩ | 0.25MΩ | 0.5MΩ | 0.25MΩ | 0.5MΩ | 2MΩ |
| Short-circuit current | 1.2mA max. | | | | | | | | 0.6mA MAX. |
| Center indication value | 0.2MΩ | 0.2MΩ | 0.5MΩ | 0.5MΩ | 1MΩ | 2MΩ | 1MΩ | 2MΩ | 50MΩ |
| Response times | ∞ to center, ∞ to 0 MΩ within 3 seconds | | | | | | | | |
| AC voltage scale Tolerance | 0 to 150V | | | 0 to 500V | | | | | |
| | ±5% of maximum scale value | | | | | | | | |
| Transient voltage protection, 10 seconds | 200V AC | | | 600V AC | | | 1200V AC | | |
| Max. rated power | 3VA (for battery check) | | | | | | | | |

*1 This is the tolerance for the first effective range. For the second effective range the value is ±10% of the indication. For 0 and infinity the tolerance is 0.7% of the scale length

*2 Resistance value to maintain rated voltage.

■ 3451, 3452 common specifications

Battery check function: Battery voltage OK if needle in "BATT CH" range

Discharge function: Discharges capacitance charge of tested item

Safety Standards: EN 61010

EMC Standards: EN 61326

Operating temperature range: 0 to 40 °C, 90 %rh. or less
(no condensation)

Storage temperature range: -20 to 50 °C, 90 %rh or less
(no condensation)

Insulation resistance: 100 MΩ minimum at 1000 V DC; electrical circuits and outer case

Withstand voltage: 7.4 kV AC(50/60Hz, 1 minute); electrical circuits and outer case

Power supply: R6P/AA manganese batteries X4

Dimensions and mass: 152 WX95 HX47 Dmm · approx. 420 g

Accessories: 9384 CARRYING CASE X1

9292 TEST PROBE X1

Accessories



Lead length approx. 1.2 m

9292 TEST PROBE



9384 CARRYING CASE

Options



Lead length approx. 1.2 m

9293 PIN-TYPE EARTH PROBE



* 9288 BREAKER PIN

*No CE marking

HIOKI

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