

INSULATION TESTER

262

Features :

1. Basic measurement functions

- DC voltage DCV
Measurement range: 0 ~ ±1000V.
Measurement basic accuracy: 2%
- AC true RMS voltage ACV
Measurement range: 30 ~ 750V (50/60Hz)
Measurement basic accuracy: 2%



2. Insulation resistance test

- 4 insulation test voltage ranges: 100V, 250V, 500V, 1000V
- Basic accuracy: 0 ~ +20%
- Insulation test range: 0.00 MΩ ~ 19.99 GΩ
- Measurement basic accuracy: 5%
- Short circuit current is about 1.3 mA

3. Insulation testing other features

- Insulation test operating modes, including:
 - Single, continuous test
 - Insulation timed test
 - Insulation PI (polarization index) test: the ratio of the resistance value measured when the insulation excitation voltage is applied for 10 minutes to that of 1 minute
 - Insulation DAR (absorption ratio) test: the ratio of the resistance value measured when the insulation excitation voltage is applied for 60 seconds to that of 15 seconds
- Insulation resistance and voltage monitoring test display
- Insulation resistance test automatic range
- Test voltage automatic discharge function
- Voltage detection and alarm of the measured object
- The TEST switch with lock function
- Insulation comparison test, the measurement result can be evaluated by the preset “pass/fail” (✓/×) limit and be given audio alarms accordingly.

4. Data recording / viewing function: manual recording, internal memory can independently store 100 (groups) measurement data, recorded data can be viewed on the instrument.

5. Product calibration

By connecting with the standard instrument, calibrating panel according to the procedures and saving the appropriate calibration data, the periodic calibration is completed and the due accuracy and performance of the product are guaranteed.

6. Segment code LCD screen display, white backlight.

7. Easy man-machine operation, portable, solid and suitable for field use.

Specifications :

Insulation Resistance Measurement (RISO)

Rated voltage	100V	250V	500V	1000V
Measurement range	0.00MΩ ~ 19.99MΩ 20.0MΩ ~ 199.9MΩ	0.00MΩ ~ 19.99MΩ 20.0MΩ ~ 199.9MΩ 200MΩ ~ 499MΩ	0.00MΩ ~ 19.99MΩ 20.0MΩ ~ 199.9MΩ 200MΩ ~ 999MΩ	0.00MΩ ~ 19.99MΩ 20.0MΩ ~ 199.9MΩ 200MΩ ~ 1999MΩ 2.00GΩ ~ 19.99GΩ
Open circuit voltage	DC 100V + 20%, -0%	DC 250V + 20%, -0%	DC 500V + 20%, -0%	DC 1000V + 20%, -0%
Drop resistance	80Kω	200kΩ	450kΩ	1MΩ
Short circuit	1.3 mA nominal value			
Accuracy	5%+5			

Insulation test automatic discharge time: when capacitor C = 1μF or less, discharge time <1 second.

Insulation test alive circuit test: if the terminal voltage is greater than 30 V before the test is initialized, the alarm will be activated to prohibits the test.

Insulation test maximum capacitive load : operative below 1μF.

Voltage Monitoring Display (Insulation Resistance Measurement)

Measurement function	Measurement range	Resolution	Accuracy
DC Voltage DCV	0 ~ 1000V	1V	2% + 3

Voltage test

Measurement function	DC voltage DCV	AC RMS voltage ACV
Measurement range	0 ~ ±1000V	30 ~ 750V Frequency band:45Hz ~ 200Hz
Resolution	1V	
Accuracy	2%+3	

General Specifications :

Operating temperature and humidity	0 to 40°C (non-condensing ≤10°C), ≤85%RH
Storage temperature and humidity	-20°C to 60°C, ≤90%RH
Working altitude	≤2000m (Indoor use)
Rated transient overvoltage	6K (1.2*50us) I, II, III measurement peak value
Withstand voltage	AC8320V(50/60Hz)/5 seconds (between the circuit and the outer box)
Insulation impedance	1000MΩ or greater/DC1000V (between the circuit and the outer box)
Vibration and shock	Randomness 2g, 5 to 500Hz; 1m drop test
Power supply	8 x 1.5 V AA alkaline batteries.
Automatic shutdown operation	automatic shutdown time 0 ~ 90 minutes can be set
Size and weight	178 × 110 × 59 (mm), about 600g (including batteries)

Standard Delivery :

- Test meter probe (including alligator clip) -1
- 1.5V Alkaline Battery - 8 Nos.
- Handle Rope
- Carrying Case
- Traceable Calibration Certificate
- Instruction Manual

Optional :

- 15V Power Adaptor
- Calibration Certificates are issued in Accordance with our Scope as granted by NABL per ISO/IEC 17025:2017 Standards

Manufactured by



Since 1972

NAGMAN INSTRUMENTS AND ELECTRONICS PRIVATE LIMITED

AN ISO 9001:2015 CERTIFIED COMPANY

170/1a2, Chennai Bangalore Highway Road, Sembarambakkam, Chennai – 600 123. INDIA.

Phone - Domestic Sales 044-6677 7024, 044-6677 7005 Email : mktgchennai@nagman.com

Phone - Export Sales +91-44-6677 7025. Email : exports@nagman.com

www.nagman.com



Specifications subject to change owing to continuous development. Contact us for latest Datasheet.

NIE/TDS/262/2309/00