

## INSULATION TESTER

## NAGMAN 262

### SALIENT 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.



Typical Photo: Final Product look may vary

### GENERAL SPECIFICATIONS

#### Insulation Resistance Measurement (RISO)

| Rated voltage        | 100V                  | 250V                              | 500V                              | 1000V  |
|----------------------|-----------------------|-----------------------------------|-----------------------------------|--|
| Measurement range    | 0.00MΩ ~ 19.99MΩ      | 0.00MΩ ~ 19.99MΩ                  | 0.00MΩ ~ 19.99MΩ                  | 0.00MΩ ~ 19.99MΩ                                       |
|                      | 20.0MΩ ~ 199.9MΩ      | 20.0MΩ ~ 199.9MΩ<br>200MΩ ~ 499MΩ | 20.0MΩ ~ 199.9MΩ<br>200MΩ ~ 999MΩ | 20.0MΩ ~ 199.9MΩ<br>200MΩ ~ 1999MΩ<br>2.00GΩ ~ 19.99GΩ |
| Open circuit voltage | DC 100V<br>+ 20%, -0% |                                   |                                   |  |
| Drop resistance      | 80Kw                  |                                   |                                   |  |

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 prohibit 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<br>Frequency band:45Hz ~ 200Hz |
| Resolution           | 1V             |  |
| Accuracy             | 2%+3           |  |

### GENERAL CHARACTERISTICS

|                                    |  |
|------------------------------------|--|
| 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 measure 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 INCLUSIONS

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

### OPTIONAL

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

Manufactured by



**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](mailto:mktgchennai@nagman.com)

Phone - Export Sales +91-44-6677 7025. Email: [exports@nagman.com](mailto:exports@nagman.com)

[www.nagman.com](http://www.nagman.com)



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

NIE/TDS/262/01/26/00