

## 1. TECHNICAL SPECIFICATIONS

Accuracy indicated as:  $\pm[\%rdg + (\text{num. dgt} * \text{resolution})]$  at  $23^{\circ}\text{C} \pm 5^{\circ}\text{C}$ ,  $<70\%HR$

### DC/AC RMS VOLTAGE MEASUREMENT (HT6)

| Range [V]                      | Resolution [V] | Frequency range [Hz] | Accuracy                  | Overload protection |
|--------------------------------|----------------|----------------------|---------------------------|---------------------|
| 12, 24, 50, 120, 230, 400, 690 | 1              | 16 ÷ 400             | Compliance with EN61243-3 | 690VDC/AC           |

### DC/AC RMS VOLTAGE MEASUREMENT (HT8, HT9)

| Range [V]    | Resolution [V] | Frequency range [Hz] | Accuracy             | Overload protection |
|--------------|----------------|----------------------|----------------------|---------------------|
| 10.0 ÷ 690.0 | 0.1            | 16 ÷ 400             | $\pm(3\%rdg + 5dgt)$ | 690VAC/DC           |

Max output current:  $<3.5\text{mA}$  at 690V  
 Input impedance:  $200\text{k}\Omega$   
 Detection AC/DC voltage: automatic  
 Response time:  $<1\text{sec.}$

### AC RMS VOLTAGE WITH 1 WIRE

| Range [V] | Frequency range [Hz] | Measurement method                      | Overload protection |
|-----------|----------------------|---|---------------------|
| 100 ÷ 690 | 50 ÷ 60              | 1-wire with contact on metal live parts | 690VAC              |

### PHASE SEQUENCE INDICATION

| Voltage range [V]            | Frequency range [Hz] | Measurement method                       |
|------------------------------|----------------------|--|
| 120 ÷ 400<br>(Phase – Earth) | 50 ÷ 60              | 2-wires with contact on metal live parts |

### LAMP TEST (HT9)

| Voltage with new battery | Field intensity (200-280kHz) | Indications  |
|--------------------------|------------------------------|--------------|
| Approx 3kV / 240kHz      | Approx $100\mu\text{V/m}$    | LED blinking |

Charging time before test:  $<0.5\text{sec.}$   
 Frequency Led blinking: 2Hz

### CONTINUITY TEST

| Range                          | Test current    | Indications           |
|--------------------------------|-----------------|-----------------------|
| 0 ÷ $500\text{K}\Omega + 50\%$ | $<7\mu\text{A}$ | LED + acoustic signal |



## 2. GENERAL SPECIFICATIONS

### Mechanical specifications

|                              |                 |
|------------------------------|-----------------|
| Dimensions (L x W x H):      | 255 x 60 x 35mm |
| Weight (included batteries): | 170g            |
| Encapsulation:               | IP64            |

### Diode test

|                |   |
|----------------|---|
| Type of diode: | standard, segnalation, Schottky (not for LED diode) |
|----------------|---|

### Display

|       |                               |
|-------|-------------------------------|
| LCD:  | HT8, HT9 (4 dgt, 6900 points) |
| LEDS: | HT6, HT8, HT9                 |

### Power supply

|                  |  |
|------------------|--|
| Internal supply: | 2x1.5V alkaline batteries type AAA, IEC LR03 |
|------------------|--|

### Reference guidelines

|                       |   |
|-----------------------|---|
| Safety:               | IEC/EN61010-1, IEC/EN61010-2-030 (HT8, HT9)<br>IEC/EN61243-3:2010 |
| EMC:                  | IEC/EN61326-1   |
| Insulation:           | double insulation   |
| Pollution degree:     | 2   |
| Measurement category: | CAT III 690V; CAT IV 600V   |
| Max height of use:    | 2000m   |

### Environmental conditions

|                        |            |
|------------------------|------------|
| Reference temperature: | 23°C ± 5°C |
| Working temperature:   | -15 ÷ 55°C |
| Working humidity:      | <95%HR     |
| Storage temperature:   | -20 ÷ 70°C |
| Storage humidity:      | <95%HR     |

**This product conforms to the prescriptions of the European directive on low voltage 2006/95/EEC and to EMC directive 2004/108/EEC**

**This product conforms to the prescriptions of the European directive 2011/65/EU (RoHS) and the European directive 2012/19/EU (WEEE)**

