

HT12

Rel. 1.00 – 04/02/11

Pocket multimeter with integrated clamp

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1. ELECTRICAL SPECIFICATIONS

 Accuracy is indicated as $\pm [(\% \text{ reading} + (\text{number of dgt}) * \text{resolution})]$ at $23^{\circ}\text{C} \pm 5^{\circ}\text{C}$, $<75\% \text{HR}$

DC VOLTAGE

| Range | Resolution | Accuracy | Overload protection |
|-----------------|------------|--|---------------------|
| 0.000 ÷ 340.0mV | 0.001mV | $\pm(1.5\% \text{rdg} + 4 \text{dgt})$ | 720VDC/AC for 10s |
| 0.000 ÷ 3.400V | 0.001V | | |
| 0.00 ÷ 34.00V | 0.01V | | |
| 0.0 ÷ 340.0V | 0.1V | | |
| 0 ÷ 600V | 1V | | |

 Impedenza di ingresso: 10M Ω

AC VOLTAGE

| Range | Resolution | Accuracy (50 ÷ 400Hz) | Overload protection |
|----------------|------------|--|---------------------|
| 0.000 ÷ 3.400V | 0.001V | $\pm(1.5\% \text{rdg} + 5 \text{dgt})$ | 720VDC/AC for 10s |
| 0.00 ÷ 34.00V | 0.01V | | |
| 0.0 ÷ 340.0V | 0.1V | | |
| 0 ÷ 600V | 1V | | |

 Input impedance: 10M Ω ; Frequency range: 50Hz ÷ 400Hz

DC CURRENT (with integrated clamp sensor)

| Range | Resolution | Accuracy | Overload protection |
|-------------|------------|--|---------------------|
| 0.0 ÷ 60.0A | 0.1A | $\pm(2.0\% \text{rdg} + 5 \text{dgt})$ | 72A AC/DC for 10s |

AC CURRENT (with integrated clamp sensor)

| Range | Resolution | Accuracy | Overload protection |
|-------------|------------|--|---------------------|
| 0.0 ÷ 60.0A | 0.1A | $\pm(2.0\% \text{rdg} + 5 \text{dgt})$ | 72A AC/DC for 10s |

Frequency range: 50Hz ÷ 60Hz

RESISTANCE

| Range | Resolution | Accuracy | Overload protection |
|-------------------------|-----------------|---|---------------------|
| 0.0 ÷ 340.0 Ω | 0.1 Ω | $\pm(1.0\% \text{rdg} + 3 \text{dgt})$ | 720VDC/AC for 10s |
| 0.000 ÷ 3.400k Ω | 0.001k Ω | | |
| 0.00 ÷ 34.00k Ω | 0.01k Ω | | |
| 0.0 ÷ 340.0k Ω | 0.1k Ω | | |
| 0.000 ÷ 3.400M Ω | 0.001M Ω | $\pm(5.0\% \text{rdg} + 5 \text{dgt})$ | |
| 0.00 ÷ 34.00M Ω | 0.01M Ω | $\pm(15.0\% \text{rdg} + 5 \text{dgt})$ | |

CONTINUITY TEST

| Range | Buzzer | Measurement range | Overload protection |
|-------|----------------------------|---------------------------------|---------------------|
| ·))) | R<30 Ω ±10 Ω | Buzzer on in 340 Ω range | 720VDC/AC for 10s |

FREQUENCY

| Type of measure | Range | Accuracy | Resolution | Overload protection |
|-----------------|------------|--|--------------|---------------------|
| Current | 0 ÷ 10kHz | $\pm(0.1\% \text{rdg} + 1 \text{dgt})$ | 0.001k÷0.01M | 72A AC/DC for 10s |
| Voltage | 0 ÷ 300kHz | | | 720VDC/AC for 10s |

Minimum measured current: 15A ; Minimum measured voltage: 30V



2. GENERAL SPECIFICATIONS

Display:

- LCD, 3 ¾ dgt, 3400 points plus sign, decimal point and bargraph
- Automatic polarity indication
- "OL" overrange indication

Features:

- Data HOLD
- Auto / Manual range
- Auto Power OFF after 10 minutes of idleness

Low battery indication:

- "BAT" appears when the battery voltage is low

Operating temperature:

- 0 °C to 40 °C, <75%HR

Storage temperature:

- -20 °C to 60 °C, <85%HR

General information:

- Max altitude: 2000m
- Pollution degree: 2
- Insulation: double insulation
- Max diameter conductor: 6mm

Power supply:

- 2x1.5V alkaline batteries type AAA LR03 UM-4

Dimensions:

- 128(L) x 87(W) x 24(H)mm

Weight (included battery):

- 210g

Applied standards:

- Safety: IEC/EN61010-1, IEC/EN61010-2-031, IEC/EN61010-2-032
- Category of measurement : CAT III 300V , CAT II 600V

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