

**HT12  
DIGITAL MULTIMETER WITH AC/DC  
OPEN CLAMP SENSOR**

HT12 is a pocket size digital multimeter with open clamp sensor ideal for the daily use. The fork current sensor and the test leads are welded to the instrument, making the use of HT12 extremely easy and convenient. HT12 is provided with 2x AAA 1,5V batteries and the user manual

**Functions**

AC current 0 ÷ 60A  
DC current 0 ÷ 60A  
AC voltage 0 ÷ 600V  
DC voltage 0 ÷ 600V  
Resistance 0÷ 34MΩ  
Continuity test  
Current frequency 0÷ 10kHz  
Voltage frequency 0÷ 300kHz  
AutoPowerOff to save the battery  
Safety:  
IEC/EN61010-1, CAT II 600V,  
CAT III 300V  
Pocket size and heavy duty design  
Display: 3400 counts with analog bargraph  
Size (LxWxH): 128x87x21mm  
Weight: 210g



**HT603  
POCKET DIGITAL MULTIMETER**

HT603 is a digital multimeter, extremely compact and friendly in use. It is provided with carrying bag and test leads. The instrument carries out measurements of AC/DC voltage, resistance, continuity test, capacitance, frequency, duty cycle and diode test.

**Standard accessories**

Test leads + batteries + user manual

**Functions**

AC/DC voltage up to 600V  
Resistance up to 40MΩ  
Continuity test  
Frequency  
Duty cycle  
Capacitance  
Diode test  
Data HOLD  
Range Automatic/Manual  
Auto Power OFF after 30 minutes  
Safety:  
IEC/EN61010-1, CAT III 300V, CAT II 600V  
Display: LCD, 4 digits, 5000 counts  
Power supply: 2x1.5V battery type LR44  
Dimensions (LxWxH): 112x56x12mm  
Weight (batteries included): 115g



**HT21-HT210  
HANDHELD DIGITAL  
MULTIMETERS**

HT21 and HT210 handheld digital multimeters realised according to CAT III 600V headed to every electrical installer.

**Accessories**

HT21: test leads, battery, user manual, carrying bag

HT210: test leads, battery, user manual, carrying bag, type K probe.

FUNCTIONS	HT21	HT210
DC Voltage	•	•
AC Voltage	•	•
Resistance	•	•
Continuity test	•	•
Frequency	•	•
Capacitance	•	•
Diode test	•	•
Duty cycle (%)	•	•
Temperature with K probe		•
Backlight	•	•
Data HOLD	•	•
Relative measurements	•	•
Safety IEC/EN61010-1	•	•
Dimensions (LxWxH):	70x144x40	138x68x37
Weight	280g	210g

**HT210**  
HR000210



**HT21**  
HR000021



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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:  $10 \text{M}\Omega$ 

### 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:  $10 \text{M}\Omega$  ; 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 $\Omega$	0.1 $\Omega$	$\pm(1.0\% \text{rdg} + 3 \text{dgt})$	720VDC/AC for 10s
0.000 ÷ 3.400k $\Omega$	0.001k $\Omega$		
0.00 ÷ 34.00k $\Omega$	0.01k $\Omega$		
0.0 ÷ 340.0k $\Omega$	0.1k $\Omega$	$\pm(5.0\% \text{rdg} + 5 \text{dgt})$	
0.000 ÷ 3.400M $\Omega$	0.001M $\Omega$	$\pm(15.0\% \text{rdg} + 5 \text{dgt})$	

### CONTINUITY TEST

Range	Buzzer	Measurement range	Overload protection
·)))	$R < 30\Omega \pm 10\Omega$	Buzzer on in 340 $\Omega$ 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:**

- " **BATT** " 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**

