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HT712

DIGITAL MULTIMETER WITH MEASUREMENT
OF VOLTAGE AND PHASE SEQUENCE WITH 1 LEAD

HT712 has been designed to practically and functionally perform the basic functions of a common digital tester in an extremely easy and quick way, thanks to its narrow and long structure. The device measures **AC/DC voltage**, **Frequency**, **Resistance**, and performs **Continuity tests**. Thanks to the innovative and patented 1-terminal method, it is possible to measure Voltage and Frequency, while the **Phase sequence** can also be measured directly on the isolating sheaths of the cables

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Functions

- TRMS measurement
- DC/AC voltage
- AC voltage with 1 terminal
- Automatic recognition of AC/DC
- Resistance and Continuity test
- Frequency
- Frequency with 1 terminal
- Phase sequence with 1 terminal
- Data HOLD
- LED indications OK/FAIL
- Autorange
- Measurement category (@ 600V)
- AutoPowerOFF



Technical Specifications

DC voltage

- Measuring range: 0.5V ÷ 600V
- Resolution: 0.1V
- Basic accuracy: $\pm(0.8\%rdg + 1digit)$

AC voltage with 2 terminals

- Measuring range: 1.5V ÷ 600V
- Resolution: 0.1V
- Basic accuracy: $\pm(1.5\%rdg + 5digits)$

Resist. and Continuity test

- Measuring range: 1 Ω ÷ 1500 Ω
- Resolution: 1 Ω
- Basic accuracy: $\pm(1.0\%rdg + 5digits)$
- Continuity: <100 Ω

Frequency with 2 terminals

- Measuring range: 40Hz ÷ 69Hz
- Resolution: 0.1Hz
- Basic accuracy: $\pm(0.5\%rdg + 1digit)$

Phase sequence with 1 terminal

- Measuring range: 100V ÷ 600V
- Resolution: 1V



Main features

Display:	LCD, 3¾ digits, 4000 dots
Power supply:	2x1.5V batteries type AAA
Auto Power OFF:	after 5 minutes' idling
Safety:	IEC/EN 61010-1
Insulation:	double insulation
Pollution level:	2
Size (LxWxH):	250x51x30mm
Weight (batteries included):	150g



Included accessories

P711EU	Red measuring lead
P710EU	Black measuring lead
B700	Holster
	ISO9000 calibration certificate
	Batteries and user manual



1. ELECTRICAL SPECIFICATIONS

Accuracy is given as \pm (% of readings + number of digits) at 23°C \pm 5°C, <80% R.H.

DC VOLTAGE

Range	Resolution	Accuracy	Input impedance	Overload protection
0.1 ÷ 599.9V	0.1V	$\pm(1.0\%rdg+2dgt)$	1M Ω	600VACrms

AC VOLTAGE

Range	Resolution	Accuracy	Input impedance	Overload protection
2 ÷ 599.9V	0.1V	$\pm(1.0\%rdg+2dgt)$	1M Ω	600VACrms

Max Crest factor =1.5

AC VOLTAGE (1-wire measure)

Range	Resolution	Accuracy	Input impedance	Overload protection
50 ÷ 600V (*)	10V	$\pm(15\%rdg+10V)$	1M Ω	600VACrms

Max Fattore di cresta =1.5

(*) Measure performed in following normally conditions: instrument handle hard, standard shoes, standard floors, etc

FREQUENCY

Range	Resolution	Accuracy	Input voltage	Overload protection
40.0 ÷ 69.9Hz	0.1Hz	$\pm(0.5\%rdg+dgt)$	2 ÷ 600V	660VACrms

RESISTANCE AND CONTINUITY TEST

Range	Resolution	Accuracy	Buzzer	Overload protection
1 ÷ 1500 Ω	1 Ω	$\pm(1.0\%rdg+2dgt)$	R<40 Ω	600VACrms (60 sec)

PHASE SEQUENCE AND PHASE CONFORMITY (1-wire measure)

Range	Input impedance	Overload protection
100 ÷ 600V (*)	1M Ω	600VACrms

(*) Measure performed in following normally conditions: instrument handle hard, standard shoes, standard floors, etc



2. GENERAL SPECIFICATIONS


Display:

- LCD Display, 3¾ dgt, 1999 counts, decimal point, unit symbol
- Automatic polarity indication
- "OL" overload indication

Features:

- HOLD
- AutoPowerOFF

Low battery indication:

- "  " symbol is shown at display

Working temperature:

- 5°C to 40 °C, <80%UR

Storage temperature:

- -10°C to 60°C, <70%UR

General information:

- Max altitude: 2000m
- Pollution degree: 2
- Insulation: class 2 (double insulation)

Power supply:

- 2 x1.5V alkaline battery type AAA, UM4, R03
- Life battery: about 200 hours

Dimensions:

- 200(L)x51(La)x30(H) mm.

Weight (included batteries):

- 240g

Applied standards:

- LVD: EN 61010-1 CAT IV 600V (tra gli ingressi e tra Fase-Terra)
- EMC: EN60326 (1997) + A1 (1997)

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