

# HT710 - HT712

## PEN DIGITAL MULTIMETERS

The HT710 and HT712 models are designed to achieve, so simple and immediate, basic features of a classic digital multimeter as a result of narrow and elongated structure capable of meeting the common demands of each installer. The HT710 performs AC/DC voltage, frequency, resistance and continuity test. HT712 model also allows the implementation of the measure of phase sequence indication and phase conformity with the innovative 1-wire method.

FUNCTIONS	HT710	HT712
TRMS measurements		•
DC/AC Voltage	•	•
AC Voltage with 1-wire method		•
AC/DC automatic signal detection		•
Resistance and continuity test	•	•
Frequency	•	•
Frequency with 1-wire method		•
Diode test	•	
Phase sequence indication with 1-wire		•
Phase conformity indication with 1-wire		•
Data HOLD	•	•
OK/FAIL led indications		•
Auto range	•	•
Relative measurement	•	
AutoPowerOFF	•	•

TECHNICAL SPECIFICATIONS	HT710	HT712
<b>DC Voltage</b>		
Measurement range:	0.1mV ÷ 1000V	0.1mV ÷ 1000V
Basic accuracy:	±(0.5%rdg + 2dgt)	±(0.5%rdg + 2dgt)
<b>AC Voltage</b>		
Measurement range:	1mV ÷ 600V	1.5mV ÷ 600V
Basic accuracy:	±(1.0%rdg + 2dgt)	±(1.5%rdg + 3dgt)
<b>Resistance and continuity test</b>		
Measurement range:	0.1Ω ÷ 40MΩ	1Ω ÷ 1500Ω
Basic accuracy:	±(1.0%rdg + 3dgt)	±(1.0%rdg + 3dgt)
Buzzer:	<100Ω	<100Ω
<b>Frequency with 2-wires</b>		
Measurement range:	0.00Hz ÷ 9.999kHz	40Hz ÷ 69Hz
Basic accuracy:	±(0.8%rdg + 2dgt)	±(0.5%rdg + 1dgt)
<b>Phase sequence indication with 1-wire (only HT712)</b>		
Measurement range:		100V ÷ 600V

  
[www.youtube.com/user/HTInstruments1](http://www.youtube.com/user/HTInstruments1)



**HT710**  
HR000710

**HT712**  
HR000712

IT PERFORMS  
THE PHASE SEQUENCE  
TEST ON THE CABLE  
SHEATH TOO

### GENERAL SPECIFICATIONS

Display:	LCD, 3 3/4 dgt, 4000 points
Power supply:	2x1.5V batteries type AAA
Battery life:	approx 170 hours
AutoPowerOFF:	after 5 min of idleness
Safety:	IEC/EN 61010-1
Category of measurement:	CAT IV 600V
Insulation:	double insulation
Pollution degree:	2
Max altitude:	2000m
Dimensions (LxWxH):	250x51x30mm
Weight (batteries included):	150g

### ACCESSORIES

Standard	Code
Red test leads	P711EU
Black test leads	P710EU
Carrying bag	B700
Batteries	
ISO9000 calibration certificate (only HT712)	
User manual	





# HT710

Rel. 1.01 of 23/10/07

## Pen multifunctional digital multimeter

Pag 1 of 2

### 1. ELECTRICAL SPECIFICATIONS

Accuracy is indicated as  $\pm$  (% of readings + number of digits) at  $23^{\circ}\text{C} \pm 5^{\circ}\text{C}$ , <80% R.H.

#### DC VOLTAGE

Range	Resolution	Accuracy	Input impedance	Overload protection
400mV	0.1mV	$\pm(0.8\%rdg+2dgt)$	100M $\Omega$	660VDC/ACrms
4V	0.001V		11M $\Omega$	
40V	0.01V		10M $\Omega$	
400V	0.1V			
600V	1V	$\pm(1.0\%rdg+2dgt)$		

#### AC VOLTAGE

Range	Resolution	Accuracy (45 ÷ 500Hz)	Input impedance	Overload protection
4V	0.001V	$\pm(1.0\%rdg+3dgt)$	11M $\Omega$	660VDC/ACrms
40V	0.01V		10M $\Omega$	
400V	0.1V			
600V	1V	$\pm(1.0\%rdg+2dgt)$		

#### FREQUENCY

Range	Resolution	Accuracy	Overload protection
10Hz	0.001Hz	$\pm(0.8\%rdg+2dgt)$	660VDC/ACrms
100Hz	0.01Hz		
1kHz	0.1Hz		
10kHz	1Hz		

#### RESISTANCE

Range	Resolution	Accuracy	Max open voltage	Overload protection
400 $\Omega$	0.1 $\Omega$	$\pm(1.0\%rdg+5dgt)$	about 0.4VDC	600VDC/Acrms (60 sec)
4k $\Omega$	0.001k $\Omega$	$\pm(1.0\%rdg+3dgt)$		
40k $\Omega$	0.01k $\Omega$			
400k $\Omega$	0.1k $\Omega$	$\pm(3.0\%rdg+3dgt)$		
4M $\Omega$	0.001M $\Omega$			
40M $\Omega$	0.01M $\Omega$			

#### CONTINUITY TEST

Range	Buzzer	Max open voltage	Overload protection
$\rightarrow$ )	R<50 $\Omega$	About 1.5VDC	600Vrms

#### DIODE TEST

Range	Resolution	Accuracy	Max open voltage	Overload protection
$\rightarrow$	1mV	$\pm(0.5\%rdg+3dgt)$	about 1.5VDC	600Vrms



宇宏企業股份有限公司

台北：三重區重新路五段609巷16號6樓之1

TEL:02-22782269 FAX:02-22782059

<http://www.fluke-tektronix.tw>

新竹：新竹縣竹北市台元26號4樓之10

TEL:03-552-6779 FAX:03-552-6739

<http://www.radiotek.com.tw>



## 2. GENERAL SPECIFICATIONS

### Display:

- LCD Display, 3¾ dgt, 3999 counts, decimal points, unit symbol
- Display refresh: 3times/sec
- Automatic polarity indication
- "OL" overload indication

### Features:

- HOLD
- RANGE for manual range
- REL for relative measurements
- AutoPowerOFF after 15 minutes of don't work

### Low battery indication:

- " " symbol is shown at display

### Working temperature:

- 5°C to 40°C, <80%RH

### Storage temperature:

- -10°C to 60°C, <70%HR

### 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):

- 150g

### Applied standards:

- LVD: EN 61010-1 CAT IV 600V
- 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

