

NEW



DIGITAL MULTIMETERS	HT8000	HT321	HT322	HT326	HT327
TRMS					•
LCD Resolution (points)	88888	2000	2000	4000	4000
DC Voltage	•(up to 10V)	•	•	•	•
AC Voltage		•	•	•	•
AC Voltage with 1 wire					
DC Current	•			•	•
AC Current				•	•
Resistance		•	•	•	•
Frequency				•	•
Frequency with 1 wire					
Capacitance				•	•
Continuity test with buzzer		•	•	•	•
Diode test		•	•	•	•
Duty cycle (%)				•	
Temperature with type K probe			•		
Temperature with Pt100, Pt1000 probe					
Measurement of DC current 4-20mA	•				
Generation of DC current 4-20mA and DC voltage up to 10V	•				
Phase sequence indication					
Phase sequence indication with 1wire					
Phase conformity with 1 wire					
Oveload protection	30V	600V	600V	600V	600V
Category of measurement		CAT IV 600V	CAT IV 600V	CAT IV 600V	CAT IV 600V
Bargraph					
Backlight			•	•	•
Autorange					
AutoPowerOFF		•	•	•	•
Data HOLD		•	•	•	•
MIN/MAX		•(only MAX)	•(only MAX)		
PEAK					
AC/DC signal automatic detection					
Relative measurement				•	•
Real-time recording					
RS-232 interface					
Size (LxWxH) mm	190X89X42	163X88X48	163X88X48	163X88X48	163X88X48
Weight	350g	280g	280g	280g	280g
PAGE	48	49	49	49	49

HT8000
VOLT / MILLIAMPERE CALIBRATOR

HT8000 Volt/mA calibrator is a source and measurement tool. This calibrator can be used in measurement or output 0 to 24 mA DC current loop, and 0 to 10 V DC voltage

FUNCTIONS

Generation of output voltage signal with amplitude up to 10VDC
Voltage measurement up to 10VDC
Generation of output current signal with amplitude up to 24mA DC
Current measurement up to 24mA DC
Current measurement in percentage format (0-24mA)
Loop current measurement of external transducers
Simulating of external transducer

GENERAL SPECIFICATIONS

Display: 5 LCD + symbol, decimal point
Power supply: 1x9V alkaline IEC6F22
Safety: IEC/EN61010-1
Insulation: double insulation
Pollution degree: 2
Size (LxWxH): 190x89x42mm
Weight (including battery): 350g

TECHNICAL SPECIFICATIONS**DC Voltage (measured)**

Measuring range: 0.01 ÷ 10.000mV
Accuracy: $\pm(0.02\text{rdg} + 2\text{dgt})$

DC Voltage (generated)

Measuring range: 0.01 ÷ 10.000mV
Accuracy: $\pm(0.02\text{rdg} + 2\text{dgt})$

DC Current (measured)

Measuring range: 0.001 ÷ 24.000mA -25.00 ÷ 125.00%
Accuracy: $\pm(0.015\%\text{rdg} + 4\text{dgt})$

DC Current (generated)

Measuring range: 0.001 ÷ 24.000mA -25.00 ÷ 125.00%
Accuracy: $\pm(0.015\%\text{rdg} + 4\text{dgt})$

Loop mode

Measuring range: 24V DC

ACCESSORIES**Standard**

KIT4000A Couple of test leads
Battery
User manual



HT321 - HT322 - HT326 - HT327 CAT IV DIGITAL PROFESSIONAL MULTIMETER

HT320 digital multimeter series provides all the essential features in compact and easy-to-use instruments developed for every-day use. Rugged design and accurate measurements make HT320 digital multimeter series the ideal choice for electricians, HVAC technicians, etc. both for maintenance and troubleshooting.

FUNCTIONS	HT321	HT322	HT326	HT327
TRMS measurements				•
AC Voltage	•	•	•	•
DC Voltage	•	•	•	•
AC Current			•	•
DC Current			•	•
Resistance	•	•	•	•
Continuity test	•	•	•	•
Frequency			•	•
Capacitance			•	•
Duty Cycle			•	•
Diode test	•	•	•	•
Data HOLD	•	•	•	•
Temp. with type K probe	•	•	•	•
MAX/MIN	•(Max)	•(Max)		•
PEAK				•
Relative measurements			•	•
Manual range	•	•	•	•
Backlight		•	•	•
AutoPowerOff	•	•	•	•

GENERAL SPECIFICATIONS

Display:	LCD, 3½ dgt, 1999 points (HT321-HT322) LCD, 3¾ dgt, 3999 points (HT326) LCD, 4 dgt, 3999 points (HT327)
Power supply:	2x1.5V batteries type AA LR6
Battery life:::	approx 220 hours
Safety:	IEC/EN61010-1
Category of measurement	CAT IV 600V – CAT III 1000V
Pollution degree:	2
Insulation:	double insulation
Pollution degree:	2
Max height of use:	200m
Size (LxWxH):	163x88x48mm
Weight (including battery):	280g, 400g (HT327)

TECHNICAL SPECIF.	HT321	HT322	HT326	HT327
DC Voltage				
Measurement range:	0.2mV ÷ 600V	0.2mV ÷ 600V	0.2mV ÷ 600V	0.1mV ÷ 1000V
Basic accuracy:	±(0.8%rdg + 1dgt)	±(0.8%rdg + 1dgt)	±(0.8%rdg + 2dgt)	±(0.5%rdg + 2dgt)
AC Voltage				
Measurement range:	0.2mV ÷ 600V	0.2mV ÷ 600V	0.1mV ÷ 600V	0.1mV ÷ 750V
Basic accuracy:	±(1.5%rdg + 3dgt)	±(1.5%rdg + 3dgt)	±(1.0%rdg + 3dgt)	±(1.0%rdg + 3dgt)
DC Current				
Measurement range:			0.01A ÷ 10A	0.1µA ÷ 3.999mA 0.01A ÷ 10A
Basic accuracy:			±(1.2%rdg + 3dgt)	±(1.2%rdg + 3dgt)
AC Current				
Measurement range:			0.01A ÷ 10A	0.1µA ÷ 10A
Basic accuracy:			±(2.0%rdg + 5dgt)	±(1.2%rdg + 5dgt)
Resistance and continuity test				
Measurement range:	0.1Ω ÷ 20MΩ	0.1Ω ÷ 20MΩ	0.1Ω ÷ 40MΩ	0.1Ω ÷ 40MΩ
Basic accuracy:	±(1.0%rdg + 3dgt)	±(1.0%rdg + 3dgt)	±(1.0%rdg + 2dgt)	±(0.8%rdg + 2dgt)
Buzzer:	<120Ω	<120Ω	<140Ω	<35Ω
Frequency				
Measurement range:			0.01kHz-99.99kHz	0.01kHz-400MHz
Basic accuracy:			±(1.5%rdg + 5dgt)	±(0.1%rdg + 2dgt)
Capacitance				
Measurement range:			0.001nF ÷ 100µF	0.001nF ÷ 100mF
Basic accuracy:			±(3.0%rdg + 5dgt)	±(2.0%rdg + 8dgt)
Duty Cycle				
Measurement range:			0.1% ÷ 80%	
Basic accuracy:			±(1.0%rdg + 5dgt)	
Temperat. with type K probe				
Measurement range:		-40°C ÷ 800°C		
Basic accuracy:		±(2.0%rdg + 3dgt)		

ACCESSORIES

Standard	Code
Couple of test leads	4413-2
Carrying bag	B80
Batteries	
User manual	
Optional	
Adapter for type K probes (only HT322)	T10
Type K probe for air/gas (only HT322)	TK107
Type K probe for semi solid substances (only HT322)	TK108
Type K probe for liquid (only HT322)	TK109
Type K probe for surfaces (only HT322)	TK110
Type K probe for surfaces with 90° lead (only HT322)	TK111



HT32 - HT37 - HT39

TRMS CAT IV PROFESSIONAL DIGITAL MULTIMETER

The models HT32, HT37 and HT39 are a family of professional TRMS multimeters able to perform AC/DC voltage, AC/DC current in complete Autorange. Each model has also the MIN/MAX, Data HOLD and AutoPowerOFF features. The HT39 model is also equipped with RS-232 serial interface for connection to a PC and use of dedicated software, more than a backlight function for comfortable reading even in poorly lit environments.

FUNCTIONS	HT32	HT37	HT39
TRMS measurements	•	•	•
DC/AC Voltage	•	•	•
DC/AC Current	•	•	•
Resistance and Continuity test	•	•	•
Frequency	•	•	•
Capacitance	•	•	•
Diode test	•	•	•
Data HOLD	•	•	•
MAX/MIN	•	•	•
PEAK		•	•
Relative measurement		•	•
Bargraph		•	•
Backlight			•
AutoPowerOFF	•	•	•
Real-time recording from PC			•
RS-232 interface			•

GENERAL SPECIFICATIONS

Display:	LCD, 4 dgt, 4000 points
Power supply:	1x9V battery type IEC6F22
AutoPowerOFF:	after 30 min of idleness
Safety:	IEC/EN 61010-1
Category of measurement:	CAT IV 600V – CAT III 1000V
Insulation:	double insulation
Pollution degree:	2
RS-232 interface:	optical/serial (only HT39)
Size (LxWxH):	164x82x44mm
Weight (included battery):	400g

ACCESSORIES	Code
Standard	
Couple of test leads	4413-2
Rubber protection holster	
Battery	
User manual	
Optional	
Carrying bag	B80
Windows software + serial cable (only HT39)	SW39

TECHNICAL SPECIFICATIONS	HT32	HT37 - HT39
DC Voltage		
Measurement range:	0.1mV ÷ 1000V	0.1mV ÷ 1000V
Basic accuracy:	±(0.5%rdg + 2dgt)	±(0.5%rdg + 2dgt)
AC Voltage		
Measurement range:	0.1mV ÷ 750V	0.1mV ÷ 750V
Basic accuracy:	±(0.9%rdg + 5dgt)	±(0.9%rdg + 5dgt)
DC Current		
Measurement range:	0.1µA ÷ 0.01A	0.1µA ÷ 3.999mA 0.01A ÷ 10A
Basic accuracy:	±(1.0%rdg + 2dgt)	±(1.0%rdg + 2dgt)
AC Current		
Measurement range:	0.1mA ÷ 10A	0.1mA ÷ 10A
Basic accuracy:	±(0.5%rdg + 5dgt)	±(1.5%rdg + 5dgt)
Resistance and continuity test		
Measurement range:	0.1Ω ÷ 60MΩ	0.1Ω ÷ 40MΩ
Basic accuracy:	±(0.7%rdg + 2dgt)	±(0.7%rdg + 2dgt)
Buzzer:	<500Ω	<450Ω
Frequency		
Measurement range:	1Hz ÷ 60MHz	1Hz ÷ 40MHz
Basic accuracy:	±(0.1%rdg + 1dgt)	±(0.1%rdg + 1dgt)
Capacitance		
Measurement range:	0.001nF ÷ 6mF	0.001nF ÷ 40mF
Basic accuracy:	±(1.9%rdg + 8dgt)	±(2.0%rdg + 8dgt)



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		•
Manual range	•	•
Relative measurement	•	
AutoPowerOFF	•	•

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

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
Size (LxWxH):	250x51x30mm
Weight (included batteries):	150G

ACCESSORIES

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

IT PERFORMS THE PHASE SEQUENCE TEST ON THE CABLE SHEATH TOO



HT710
HR000710

HT712
HR000712

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 III 600V
Pocket size and heavy duty design
Display: 3400 counts with analog bargraph
Size (LxWxH): 128x87x21mm
Weight: 210g



HT603 POCKET DIGITAL MULTIMETER

HT603 model is a digital multimeter in autorange easy to use and extremely compact thanks to the handy box containing tips test leads. This tool allows to perform AC/DC voltage measurement, resistance measurement, diode test and continuity test. HT603 is provided with tips test leads, battery and user manual.

Functions

DC voltage from 0.1mV to 600V
AC voltage from 1mV to 600V
Resistance from 0.1 to 30MΩ
Continuity test
Diode test
Data HOLD, autorange, bargraph
Selection of manual range
AutoPowerOff after 10 min of idleness
Safety: IEC/EN61010-1, CAT III 300V, CAT II 600V
Power supply: 1x3V battery type CR2032
Display: LCD, 3 ¼ dgt, 3200 points
Size (LxWxH): 78x118x16mm
Weight: 110g



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	•	•



HT410 PROFESSIONAL DIGITAL MULTIMETER PROTECTED AGAINST WRONG CONNECTIONS

HT410 is a digital multimeter for daily use. This instrument has been developed in compliance with IEC/EN 61010-1 safety standard with double insulation protection in CAT IV 600V and CAT III 1000V. HT410 is protected against wrong connections. The function selector switch is coupled with the Automatic terminal Blocking System (ABS) which allows access only to two correct sockets for each function. When the test leads are plugged-in, the terminal blocking systems prevents accidental switching to non-permissible functions.

Functions

DC voltage 0 ÷ 1000V
AC voltage 0 ÷ 1000V
DC current 0 ÷ 10A
AC current 0 ÷ 10A
Frequency 0 ÷ 100kHz
Duty cycle 2% ÷ 98%
Resistance 0 ÷ 20MΩ
Diode test
Continuity test
Capacitance 0 ÷ 30uF
Temperature -200 ÷ 850°C with Pt 100 / Pt 1000 probes



HT14N ANALOG MULTIMETER

HT14N is a analog multimeter for AC/DC voltage up to 500V, DC current up to 100mA, resistance and battery test. HT14N is provided with test leads, battery, rubber holster and user manual.

Functions

DC voltage with 2.5, 25, 250, 500V scales
AC voltage with 25, 250, 500V scales
DC current with 1, 10, 100mA scales
Resistance with Rx10, Rx100, Rx1000 scales
1.5V and 9V test batteries
Safety: IEC/EN61010-1, CAT II 300V
Power supply: 1x1.5V battery type AA LR06
Size (LxWxH): 145x80x45mm
Weight (included battery): 25g



HT14N
HR000114

HT20 PEN VOLTAGE DETECTOR WITH WHITE LED TORCH

The HT20 pen voltage detector permits to quickly verify the presence of AC voltage on any type of electrical installations with and without direct contact. A red LED light on and a beeper detect the presence of voltage. HT20 is provided with batteries and user manual.

Functions

AC voltage range: 100V ÷ 1000V to ground
Frequency range: 50/60Hz
Red LED and buzzer for voltage detection
White LED torch with ON/OFF key
Practical pen clip
Safety: IEC/EN61010-1, CAT IV 1000V
Pollution degree: 2
Power supply:
2x1.5V batteries type AAA IECLR03
Size (LxWxH): 160 x 26 x 20mm
Weight (with batteries): 48g



HT20
HR000296

HT70 PEN PHASE SEQUENCE AND CONFORMITY INDICATOR

HT70 verifies the presence of AC voltage with and without direct contact and performs phase sequence and conformity test on three phase plants. HT70 is provided with batteries and user manual.

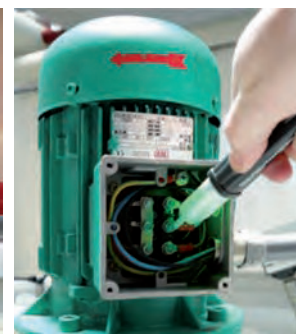
Functions

AC voltage range: 100V ÷ 1000V to ground
Frequency range: 50/60Hz
LED red/green + buzzer for indication of test
Pocket clip
Safety: IEC/EN61010-1, CAT IV 1000V
Pollution degree: 2
Power supply: 2x1.5V batteries type AAA IECLR03

Battery life: >9000 tests
Size (LxWxH): 160 x 26 x 20mm
Weight (included batteries): 48g
Accessories
Batteries + user manual



Incorrect phase sequence



Correct phase sequence

**IT PERFORMS
THE PHASE
SEQUENCE TEST
ON THE CABLE
SHEATH TOO**

NEW



HT70
HR000070

HT82 PHASE SEQUENCE INDICATOR

HT82 model is a digital portable meter to perform the phase sequence indication with 3-wire method on standard three phase system. The meter shows the "R" indication in positive test and "L" indication in the opposite case. HT82 is provided with 3 cables, 3 alligator clips, carrying bag and user manual.

Functions

AC voltage range from 40 to 690V
Frequency range: from 15Hz to 400Hz
"R" and "L" indications at display
LCD custom display
Protection holster
Safety: IEC/EN61010-1, CAT III 600V
Power supply: directly from network
Size (LxWxH): 130x69x22mm
Weight: 130g



HT82
HR000156