



HT MULTIMETERS

PROFESSIONAL TRMS MULTIMETERS



HT64



HT63



HT62



HT61



HT60



NEW

JUPITER



NEW

NEPTUNE



NEW

MERCURY



FLASHMETER



IRONMETER



HT39



HT701



HT401



HT712

MAIN MEASUREMENTS	PROFESSIONAL TRMS MULTIMETERS							PROFESSIONAL TRMS MULTIMETERS							
TRMS	•	•	•	•	•	•		•	•	•	•	•	•	•	•
AC/DC voltage	• AC+DC	•	•	•	•	• AC+DC		• AC+DC	• AC+DC	•	•	•	•	• AC+DC	•
AC/DC voltage with low impedance (LoZ)	•	•	•	•	•	•		•	-	-	-	-	-	• AC	-
AC/DC current with external transducer	•	•	-	-	-	• Inrush		• Inrush	• AC+DC	-	-	-	-	-	-
AC/DC current with leads	• AC+DC	• AC+DC	•	•	-	-		-	•	-	•	•	•	• AC+DC	-
4-20mA% reading	•	•	-	-	-	-		-	-	-	-	-	-	-	-
Frequency	•	•	•	•	•	•		•	•	-	•	•	•	•	•
Resistance	•	•	•	•	•	•		•	•	•	•	•	•	•	•
Continuity with buzzer	•	•	•	•	•	•		•	•	•	•	•	•	•	•
Capacitance	•	•	•	-	•	-		-	•	-	•	•	•	•	-
Diode test	•	•	•	•	•	-		-	•	-	•	•	•	•	-
Duty Cycle (%)	•	•	•	•	•	-		-	•	-	•	•	-	-	-
Temperature with K-type probe	•	•	•	-	•	-		-	•	-	-	-	•	•	-
Insulation measurement (50,100,250,500,1000VDC)	-	-	-	-	-	-		•	-	-	-	-	•	-	-
Phase sequence and concordance	-	-	-	-	-	•		•	-	-	-	-	-	-	• + Conformity
Built-in LED torch	-	-	-	-	-	-		-	•	-	•	-	-	-	-
Test on A and AC general RCDs	-	-	-	-	-	•		-	-	-	-	-	-	-	-
L-L, L-N, L-PE, RA loop impedance	-	-	-	-	-	•		-	-	-	-	-	-	-	-
Voltage/Current harmonics + THD%	-	-	-	-	-	•		-	-	-	-	-	-	-	-
Continuity of protective conductors with 200mA	-	-	-	-	-	-		•	-	-	-	-	-	-	-

ADDITIONAL CHARACTERISTICS

Measurement category	CAT IV 600V	CAT IV 600V	CAT IV 600V	CAT IV 600V	CAT IV 600V	CAT IV 600V CAT III 690V		CAT IV 600V CAT III 1000V	CAT IV 600V CAT III 1000V	CAT IV 600V	CAT III 600V	CAT IV 600V CAT III 1000V	CAT IV 600V CAT III 1000V	CAT IV 600V CAT III 1000V	CAT IV 600V
Measuring counts	6000	60.000	6000	6000	4000	9999		9999	6000	4000	4000	4000	10000	6000	4000
Backlight	•	•	•	•	•	•		•	•	•	•	•	•	•	-
IR sensor resolution	-	-	-	-	-	-		-	• 80 x 80 pxl	-	-	-	-	-	-
Bluetooth	-	-	-	-	-	-		-	• with APP HTMercury	-	-	-	-	-	-
Bargraph	•	•	•	•	-	•		•	•	-	-	•	•	•	-
Autorange	•	•	•	•	•	•		•	•	-	•	•	•	•	•
Auto power off	•	•	•	•	•	•		•	•	•	•	•	•	•	•
Detection of AC voltage without contact	-	-	-	-	-	-		-	•	•	-	-	-	•	-
Data HOLD function	•	•	•	•	•	•		•	•	•	•	•	•	•	•
MIN/MAX/AVG functions	•	• MIN/MAX	• MIN/MAX	• MIN/MAX	-	• MIN/MAX		• MIN/MAX	• MIN/MAX	-	• MIN/MAX	• MIN/MAX	•	• MIN/MAX	-
PEAK function	• (1ms)	• (1ms)	-	-	-	• (1ms)		• (1ms)	•	-	-	•	-	•	-
Automatic recognition of AC/DC	-	-	-	-	-	•		•	-	•	-	-	-	-	•
Automatic recognition of internal functions	-	-	-	-	-	-		-	-	•	-	-	-	-	-
Relative measurement	•	•	•	•	•	-		-	•	-	-	•	•	-	-
Data logger and graph	•	-	-	-	-	-		-	•	-	-	• (through SW)	-	-	-
Memory for data saving	•	-	-	-	-	-		-	• (micro SD card)	-	-	-	•	-	-
Power supply	1x7.4V rechargeable Li-ION battery	4x 1.5V AAA	1x 9V 6F22	1x 9V 6F22	1x 9V 6F22	4x 1.5V AAA		4x 1.5V AAA	1x7.4V rechargeable Li-ION battery	2x 1.5V AAA	2x 1.5V AAA	1x 9V 6F22	4x 1.5V AA	1x 9V 6F22	2x 1.5V AAA
Size in mm (L x W x H)	175x85x55	175x85x55	175x85x55	175x85x55	175x85x55	175x85x55		175x85x55	190x75x55	135x75x40	120x85x45	164x82x44	207x95x52	190x94x48	250x51x30
Weight in grams	400	400	400	400	400	420		420	555	220	200	400	630	460	150
Safety	IEC/EN61010-1	IEC/EN61010-1	IEC/EN61010-1	IEC/EN61010-1	IEC/EN61010-1	IEC/EN61010-1		IEC/EN61010-1	IEC/EN61010-1	IEC/EN61010-1	IEC/EN61010-1	IEC/EN61010-1	IEC/EN61010-1	IEC/EN61010-1	IEC/EN61010-1
Order code	HR000010	HR000001	HR000002	HR000003	HR000004	HR00JUPI		HR00NEPK	HR000MER	HR000011	HR000005	HR000039	HR000701	HR000401	HR000712

DIGITAL
MULTIMETERS



MAIN MEASUREMENTS	DIGITAL MULTIMETERS				DIGITAL MULTIMETERS					
TRMS	•	-	-		-	-	-	-	-	-
AC/DC Voltage	•	•	•		•	•	•	•	•	•
AC Voltage with 1 terminal	-	-	-		-	-	•	•	•	•
AC Voltage with low impedance input	-	-	-		-	-	•	-	•	-
AC/DC Current	•	-	• DC		• DC	•	-	-	-	-
Frequency	•	•	-		-	•	-	-	-	-
Resistance	•	•	•		•	•	•	-	-	-
Continuity with buzzer	•	•	•		-	•	•	•	•	•
Capacitance	•	•	-		-	-	-	-	-	-
Diode test	•	•	•		•	-	-	•	-	•
Duty Cycle (%)	•	•	-		-	-	-	-	-	-
Temperature with K-type probe	•	-	-		-	-	-	-	-	-
Phase sequence and phase concordance	-	-	-		-	-	•	•	•	•
Built-in LED torch	-	-	-		-	-	•	•	•	•

ADDITIONAL CHARACTERISTICS

Measurement category	CAT III 600V	CAT III 600V	CAT III 600V		CAT III 300V CAT II 600V	CAT III 300V CAT II 600V	CAT III 1000V CAT IV 600V	CAT IV 600V CAT III 690V	CAT IV 600V CAT III 1000V	CAT IV 600V CAT III 690V
Measuring counts	4000	4000	2000		2000	3400	1999	6900	1999	LED indications
Backlight	•	•	•		-	-	•	-	•	-
Bargraph	-	-	-		-	•	-	-	•	-
Autorange	•	•	-		-	•	•	-	•	-
Auto power off	•	•	-		-	•	•	•	•	•
Data HOLD function	•	•	•		•	•	•	•	-	•
MIN/MAX function	•	-	-		-	-	-	-	-	-
PEAK function	-	-	-		-	-	-	-	-	-
Relative measurement	-	•	-		-	-	-	-	-	-
Power supply	2x 1.5V AAA	1x 9V 6F22	1x 9V 6F22		1x 12V MS21/MN21	2x 1.5V AAA	2x 1.5V AAA	2x 1.5V AA	2x 1.5V AAA	2x 1.5V AA
Size in mm (L x W x H)	138x68x37	138x68x37	150x70x48		105x50x25	128x87x24	270x70x30	255x60x35	240x78x40	255x60x35
Weight in grams	235	210	255		100	210	290	170	240	170
Safety	IEC/EN61010-1	IEC/EN61010-1	IEC/EN61010-1		IEC/EN61010-1	IEC/EN61010-1	IEC/EN61010-1	IEC/EN61010-1	IEC/EN61010-1 IEC/EN61243-3:2014	IEC/EN61010-1
Order code	HR000211	HR000021	HR00025N		HR00014D	HR000012	HR000100	HR000008	HR000007	HR000006



ORDER CODE **HR000010** | **HR000001** | **HR000002** | **HR000003** | **HR000004**

HT64|HT63|HT62|HT61|HT60

SERIES OF TRMS / CAT IV
PROFESSIONAL DIGITAL MULTIMETERS
WITH DATA LOGGER FUNCTIONS (HT64)

The new series of HT professional multimeters is the result of an important research conducted at the most demanding users of this kind of equipment, namely laboratories where the choice of a measuring instrument is subject to strict tests concerning **precision, reliability and safety of measurements even in extreme conditions**. Therefore, a complete range multimeters, all able to measure in **TRMS**, all within **CAT IV 600V**, **autorange** function available on all models, with backlight display. The design is extremely modern and attractive, but also **ergonomic**, to ensure **maximum ease of use**. **Display with high resolution**, even in **color version**, for the premium model **HT64**. In the summary table you can find all the features that make this innovative set of professional instruments unique and valuable.

Functions

	HT64	HT63	HT62	HT61	HT60
TRMS Measurements	•	•	•	•	•
Color display	•	-	-	-	-
AC/DC Voltage	• AC+DC	•	•	•	•
AC/DC Current	•	•	-	-	-
LoZ voltage measurement	•	•	•	•	•
Resistance/Continuity Test	•	•	•	•	-
Frequency	•	•	•	•	•
Capacity	•	•	•	•	•
Duty cycle	•	•	•	-	•
Diode test	•	•	•	•	•
Temperature probe type K	•	•	•	•	•
Reading 4-20mA%	•	•	•	-	•
Lettura 4-20mA%	•	•	-	-	-
Data HOLD	•	•	•	•	•
MAX/MIN/AVG	•	• Max/Min	• Max/Min	• Max/Min	-
PEAK	• 1ms	• 1ms	-	-	-
Relative Measurement	•	•	•	•	•
Autorange	•	•	•	•	•
Backlight	•	•	•	•	•
Bargraph	•	•	•	•	-
Data loggers and graph	•	-	-	-	-
Internal memory	•	-	-	-	-
Auto Power OFF	•	•	•	•	•

Main features

Display:	4 digit LCD, 4000 pixels (HT60) 4½ digit LCD, 6000 pixels (HT61, HT62) 4½ digit LCD, 60000 pixels (HT63) Color 4 4½ digit TFT, 6000 pixels (HT64)
Power supply:	1x9v battery type 6F22 (HT60, HT61, HT62) 4x1.5 V batteries type AAA LR03 (HT63) 1x7.4V rechargeable Li-ION battery (HT64)
Auto Power OFF:	after 30 minutes of non-use (HT60) after 15 minutes of non-use (HT61, HT62, HT63) 5min ÷ 60 min of non-use (HT64)
Safety:	IEC/EN61010-1
Measurement category:	CAT IV 600V - CAT III 1000V
Level of pollution:	2
Max operating altitude:	2000m
Dimensions (LxWxH):	175x85x55mm
Weight (batteries included):	about 400 g

Included accessories

4324-2	Pair of test leads with 2/4mm tip
TK101	Type K wire probe (HT60, HT62, HT63, HT64)
T10	Type K Probe adapter
A64	Power supply + adapter (HT64)
Calibration certificate ISO 9000 (HT61, HT62, HT63, HT64)	Batteries, user manual and transport bag

Technical specifications

	HT64	HT63	HT62	HT61	HT60
DC Voltage					
Reading range:	0.1mV ÷ 1000V	0.1mV ÷ 1000V	0.1mV ÷ 1000V	0.1mV ÷ 1000V	1mV ÷ 600V
Standard accuracy:	±(0.1%reading+5digits)	±(0.9%reading+5digits)	±(1.0%reading+2digits)	±(1.0%reading+2digits)	±(1.2%reading+2digits)
AC Voltage					
Reading range:	0.1mV ÷ 1000V	0.1mV ÷ 1000V	1mV ÷ 1000V	1mV ÷ 1000V	1mV ÷ 600V
Standard accuracy:	±(0.9%reading+5digits)	±(1.0%reading+5digits)	±(1.0%reading+8digits)	±(1.0%reading+8digits)	±(1.2%reading+4digits)
DC Current					
Reading range:	0.1µA ÷ 10A	0.1µA ÷ 10A	0.1µA ÷ 10A	0.1µA ÷ 10A	-
Standard accuracy:	±(0.9%reading+5digits)	±(1.5%reading+5digits)	±(1.0%reading+3digits)	±(1.0%reading+3digits)	-
AC Current					
Reading range:	0.1µA ÷ 10A	0.1µA ÷ 10A	0.1µA ÷ 10A	0.1µA ÷ 10A	-
Standard accuracy:	±(1.2%reading+5digits)	±(2.5%reading+5digits)	±(1.5%reading+3digits)	±(1.5%reading+3digits)	-
Resistance and continuity test					
Reading range:	0.1Ω ÷ 60MΩ	0.1Ω ÷ 60MΩ	0.1Ω ÷ 60MΩ	0.1Ω ÷ 60MΩ	0.1Ω ÷ 40MΩ
Standard accuracy:	±(0.8%reading+5digits)	±(1.2%reading+5digits)	±(1.0%reading+4digits)	±(1.0%reading+4digits)	±(1.0%reading+2digits)
Buzzer:	<25Ω	<35Ω	<100Ω	<100Ω	<30Ω
Frequency					
Reading range:	0.001Hz ÷ 1MHz	0.001Hz ÷ 1MHz	0.001Hz ÷ 1MHz	0.001Hz ÷ 1MHz	0.001Hz ÷ 10MHz
Standard accuracy:	±(0.09%reading+5digits)	±(1.0%reading+2digits)	±(0.1%reading+1digit)	±(0.1%reading+2digits)	±(1.2%reading+3digits)
Capacity					
Reading range:	0.01nF ÷ 6mF	0.01nF ÷ 6mF	0.01nF ÷ 1000µF	-	0.01nF ÷ 100µF
Standard accuracy:	±(1.2%reading+8digits)	±(2.5%reading+10digits)	±(3.5%reading+4digits)	-	±(3.0%reading+5digits)
Duty Cycle					
Reading range:	0.1% ÷ 99.9%	20% ÷ 80%	0.1% ÷ 99.9%	0.1% ÷ 99.9%	0.5% ÷ 99.9%
Standard accuracy:	±(1.2%reading+2digits)	±(1.0%reading+5digits)	±(1.2%reading+2digits)	±(1.2%reading+2digits)	±(1.2%reading+2digits)
Temperature probe type K					
Reading range:	-40°C ÷ 1350°C	-40°C ÷ 760°C	-45°C ÷ 750°C	-	-20°C ÷ 760°C
Standard accuracy:	±(1.0%reading + 3°C)	±(2.0%reading + 3°C)	±(3.5%reading + 5°C)	-	±(3.0%reading + 5°C)



ORDER CODE **HR00JUPI** | **HR00NEP**

JUPITER NEPTUNE

PROFESSIONAL DEVICE
FOR ELECTRIC SAFETY VERIFICATIONS
ACCORDING TO IEC/EN61557-1 WITH ADVANCED
MULTIMETER FUNCTIONS

The new models **JUPITER** and **NEPTUNE** are **innovative** devices which, further to being used as powerful multimeters for **TRMS** measurements, allow performing electric safety tests (**RCD**, **Ra**, **Loop**, **Insulation** and **Continuity**) according to standard **IEC/EN61557-1**. They comply to **CAT IV 600V**, with **autorange** function available in all models, as well as the **backlit display**. The design is extremely modern, attractive and ergonomic to offer the best possible ease of use.



ORDER CODE **HR000MER**

MERCURY

PROFESSIONAL MULTIMETER
WITH IN-BUILT THERMAL CAMERA

Model **MERCURY** is a digital **TRMS** multimeter which mainly measures **AC/DC voltage** up to **1000V** and **AC/DC current** up to **10A**. Among its important functions, this device features mode **AC+DC**, which is used to also detect direct components possibly overlapping the alternate signal, and measurement of currents with the **use of standard and flexible clamp transducers*** (accessory F3000U) directly connected to it. A **thermal camera** with resolution **80x80pxl** is also built in the device in order to allow for a possible simultaneous reading of electric and thermal values of the item to be tested. **MERCURY** is also provided with a **Data Logger** function which allows it to perform and **save recordings** of every parameter which can be measured by the device and **graphically display the trend of the values**. The device allows saving pictures in BMP format on a micro SD card (provided), and also has a **Bluetooth** function to connect to mobile devices (tablets/smartphones) through the **dedicated APP HTMercury**, to create reports to share measured results.

* Standard HT96U and flexible F3000U.



Functions and characteristics

	JUPITER	NEPTUNE
Multimeter section		
DC / AC, AC+DC TRMS voltage	•	•
DC / AC / AC+DC TRMS voltage with low impedance (LoZ)	•	•
AC TRMS current up to 3000A with optional flexible clamp transducer F3000U	•	•
Automatic recognition of AC and DC quantities	•	•
Inrush current (Dynamic INRUSH - DIRC)	•	•
Current/voltage harmonics up to the 25 th and THD% calculation	•	•
Resistance and continuity with buzzer	•	•
Current and voltage frequency	•	•
MAX/MIN/PEAK/HOLD functions	•	•
9999 measuring spots	•	•
Auto-Power-Off function	•	•
Bargraph function	•	•
Funzione bargraph	•	•
Electric verification section		
Overall earth resistance L-PE without RCD tripping	•	-
Loop impedance L-L, L-N and calculation of assumed short-circuit current	•	-
Measurement of tripping time on General RCDs type A and AC (30mA, 100mA, 300mA)	•	-
Measurement of tripping current on General RCDs type A and AC (30mA)	•	-
Phase sequence with 1 terminal	•	•
Insulation with test voltage 50, 100, 250, 500, 1000V with PI and DAR calculation	-	•
Continuity of protective conductors with 200mA	-	•



Included accessories

C2065	Three wire cable Red, Black, Green with Schuko plug (JUPITER)
4324-2	Pair of test tips Red/Black 2/4mm straight banana
YABAT0001HT0	Alkaline battery 1.5V, type AAA, IEC LR03, 4 pcs
YABRS0002HT0	Carrying bag
YAMUM0066HT0	User manual on CD-ROM
YAMUM0065HT0	Quick reference guide
	Calibration certificate ISO9000



Optional accessories

606-IECN	Connector with magnetic terminal
F3000U	AC flexible clamp with 30/300/3000A full scales
HT96U*	AC current clamp with 1/100/1000A full scales
HT97U*	AC current clamp with 10/100/1000A AC full scales
HT98U*	DC current clamp with 1000A full scale
HT4006	AC/DC current clamp with 40/400A full scales
NOCANBA	Hypertac-to-banana adapter
5004-IECR	Red alligator clip
5004-IECN	Black alligator clip

The standard accessories can be different depend on countries.
* Adapter NOCANBA required.



Functions and characteristics

- DC voltage
- AC and AC+DC TRMS voltage
- DC current
- AC and AC+DC TRMS current
- AC and AC+DC TRMS current with standard clamp transducers
- AC TRMS current with flexible clamp transducer F3000U
- "Voltsense" for AC voltage detection without contact
- Resistance and Continuity test
- Diode, Capacitance and Frequency tests
- Temperature with K-type probe
- Infrared temperature with in-built thermal camera
- In-built datalogger
- Data HOLD
- MIN/MAX/PEAK
- Relative measurement
- Bargraph
- Backlight
- Input protective fuses
- Auto Power OFF



Main features

Power supply:	1x7.4V rechargeable Li-ION battery, 1200mAh
Safety:	IEC/EN61010-1
Measurement category:	CAT IV 600V, CAT III 1000V
Insulation:	double insulation
Pollution level:	2
Mechanical protection index:	IP65
Max operating altitude:	2000m
Size (LxWxH):	190x75x55mm
Weight (batteries included):	approx 555g



Included accessories

F3000U	Flexible clamp with full scale 30/300/3000A AC and banana connectors
4324-2	Pair of Red/Black banana connectors with 2/4mm tip
BATMCY	Spare battery Li-ION 7,4V 1500mAh
A0MCY	Multiplug power supply for MERCURY with recharging base
	Micro SD card 8GB,10x
B0MCY	Carrying bag
	Alkaline battery type AAA IEC LR03, 2 pieces (for F3000U)
	Type K bead probe + adapter
	User Manual
	Calibration certificate ISO9000



Optional accessories

HT96U**	Standard clamp with full scale 1/100/1000A AC and Hypertac connector
HT97U**	Standard clamp with full scale 10/100/1000A AC and Hypertac connector
HT98U**	Standard clamp with full scale 1000A DC and Hypertac connector
HT4006	Standard clamp with full scale 40/400A AC/DC and banana connectors

The standard accessories can be different depend on countries.
* Adapter NOCANBA required.



ORDER CODE **HR000005** / **HR000011**

IRONMETER FLASHMETER

TRMS MULTIMETERS WITH BUILT-IN LED TORCH
AND TOTAL AUTORANGE (FLASHMETER)

IRONMETER is the true tester for construction sites, realized with a very **sturdy structure** capable of resisting every shock, ready to rise again after any fall (**even from 3 m high**) and keep working with the very same precision and reliability. It is provided with all of the typical functions of everyday use, but also features an **in-built LED torch** to illuminate poorly lit environments, when necessary. **FLASHMETER**, according to the quantity present at the input, **automatically switches** between voltage and resistance measurement.



ORDER CODE **HR000039**

HT39

TRMS MULTIMETER 4000 DOTS
WITH SERIAL INTERFACE RS-232

HT39 is a **professional TRMS** multimeter which mainly measures **AC/DC voltage** and **AC/DC current in total Autorange**, further to **Peak values**, useful in **industrial verifications**. The device is also provided with **serial interface RS-232** for **PC connection** and **real-time** display of the quantities to be measured. Under these conditions it is possible (through optional dedicated software) to activate and save recordings of the parameters, with programmable sampling period. **HT39** is designed to reach category **CAT III 1000V** and **CAT IV 600V** and is provided with a fuse with high breaking capacity on the current input.

Functions

	IRONMETER	FLASHMETER
TRMS Measurements	•	•
Automatic selection of measurements	-	•
AC/DC Voltage	• (600V)	• (600V)
AC/DC Current	• (10A)	-
Resistance/Continuity Test	•	•
Detection of AC voltage without contact	•	•
Frequency	•	-
Capacitance, Diode test	•	-
Duty cycle	•	-
Built-in flashlight	•	•
Auto HOLD function	-	•
Autorange	•	•
Backlight	•	•
Auto Power OFF	•	•

Main features

Power supply:	2x1.5V batteries type AAA IEC LR03
Safety:	IEC/EN61010-1
Measurement category:	CAT III 600V
Insulation:	double insulation
Pollution level:	2
Max operating altitude:	2000m
Display:	4 LCD, 4000 dots, decimal sign and point
Protection fuses:	Yes (IRONMETER)
Dimensions (LxWxH):	120x65x45mm (IRONMETER) 140x75x40mm (FLASHMETER)
Weight (batteries included):	200g (IRONMETER) 220g (FLASHMETER)

Included accessories

4324-2	Pair of test leads with tip 2
	Batteries
	Transport bag
	User Manual

Functions

- TRMS Measurements
- DC Voltage: 1000V
- AC Voltage: 750V
- AC/DC Current: 10A
- Resistance/Continuity Test
- Frequency
- Capacitance and Diode test
- Data HOLD, MAX/MIN/PEAK
- Relative measurement
- RS-232 interface
- Backlight
- Bargraph
- Auto Power OFF

Included accessories

	Pair of test leads
	Batteries
	Protective case with support
	User Manual

Main features

Power supply:	1x9V batteries type 6F22
Safety:	IEC/EN61010-1
Measurement category:	CAT IV 600V, CAT III 1000V
Insulation:	double insulation
Pollution level:	2
Max operating altitude:	2000m
Display:	4 LCD, 4000 dots, decimal sign and point
Protection fuses:	Yes
Dimensions (LxWxH):	164x82x44mm
Weight (batteries included):	400g

Optional accessories

B80	Soft carrying bag
SW39	Windows software + RS-232 cable



TRMS



ORDER CODE **HR000701**

HT701

PROFESSIONAL MULTIMETER
FOR INSULATION MEASUREMENT UP TO 1000V

Professional **TRMS** multimeter with **10.000** measuring spots and measurement of **insulation resistance** with **selectable test voltage** between **50, 100, 250, 500, 1000VDC**. HT701 is capable of saving the results of measurements in its **internal memory** and has been designed in compliance with **safety standard IEC/EN61010-1** in CAT III 1000V and **CAT IV 600V** with double protective insulation.



PR701
Remote switch
probe for insulation
measurements



TRMS



ORDER CODE **HR000401**

HT401

PROFESSIONAL MULTIMETER FOR AC+DC
TRMS MEASUREMENT AND LoZ INPUT

Professional digital multimeter in **TRMS** with **6000** measuring spots which mainly carries out measurements of **AC/DC voltage** and **AC/DC current**. Among the many functions of the device there are the **AC+DC** mode, used to consider also **continuous components possibly overlapping the alternate signal** and AC voltage measurements in conditions of **low impedance (LoZ)** in order to **reduce the influences** when measuring **between adjacent conductors**.



Functions

- DC/AC TRMS voltage
- DC/AC TRMS current
- Insulation with test voltage up to 1000VDC
- Resistance and Continuity test
- Frequency
- Diode test
- Capacity
- Temperature with K-type probe
- Internal memory for measured data saving
- Data HOLD, MAX/MIN, Relative measurement
- Automatic/Manual Range
- Backlight, Bargraph
- Auto Power OFF



Main features

Display:	LCD, 10000 dots
Power supply:	4x1.5V alkaline batteries type AA LR6
Auto Power OFF:	after 20 minutes' idling
Safety:	IEC/EN61010-1, IEC/EN61557-1-2
Measurement category:	CAT III 1000V, CAT IV 600V
Insulation:	double insulation
Pollution level:	2
Max height:	2000m
Size (LxWxH):	207x95x52mm
Weight (batteries included):	630g



Included accessories

4413-2	Pair of test leads
YAAMK0001HTO	Pair of alligator clips
PR701	Probe for insulation measurement
TK101	K-type wire probe
T10	Adapter for K-type probes
	Belt with magnetic terminal
	Protective case, battery and user manual



Technical Specifications

DC voltage

- Measuring range: 0.01mV ÷ 1000V
- Resolution: 0.01mV ÷ 0.1V
- Basic accuracy: ±(0.08%reading + 2 digits)
- Protection: 1000V DC/ACrms

AC TRMS voltage

- Measuring range: 0.01mV ÷ 1000V
- Resolution: 0.01mV ÷ 0.1V
- Basic accuracy: ±(0.9%reading + 3 digits)
- Protection: 1000V DC/ACrms

DC current

- Measuring range: 0.01mA ÷ 400mA
- Resolution: 0.01mA ÷ 0.1A
- Basic accuracy: ±(0.2%reading + 2 digits)
- Protection: Fuse F440mA/1000V

AC TRMS current

- Measuring range: 0.01mA ÷ 400mA
- Resolution: 0.01mA ÷ 0.1mA
- Basic accuracy: ±(1.5%reading + 2 digits)
- Protection: Fuse F440mA/1000V

Resistance and Continuity test

- Measuring range: 0.1Ω ÷ 40MΩ
- Resolution: 0.1Ω ÷ 0.01MΩ
- Basic accuracy: ±(0.5%reading + 2 digits)
- Continuity test: <30Ω
- Protection: 1000V DC/ACrms

Frequency

- Measuring range: 0.01Hz ÷ 100kHz
- Resolution: 0.01Hz ÷ 0.01kHz
- Basic accuracy: ±(0.1%reading + 5 digits)
- Protection: 1000V DC/ACrms

Capacity

- Measuring range: 0.001μF ÷ 40mF
- Resolution: 0.001μF ÷ 0.01mF
- Basic accuracy: ±(1.2%reading + 2 digits)
- Protection: 1000V DC/ACrms

Temperature with K-type probe

- Measuring range: -200°C ÷ 1200°C
- Resolution: 0.1°C
- Basic accuracy: ±(1.0%reading + 1°C)
- Protection: 1000V DC/ACrms

Insulation measurement

- Test voltage: 50, 100, 250, 500, 1000VDC
- Measuring range: 2MΩ ÷ 22GΩ
- Resolution: 0.001MΩ ÷ 0.1GΩ
- Basic accuracy: ±(1.5%reading + 5 digits)
- Protection: 600V DC/ACrms



Functions

- DC/AC TRMS voltage
- DC/AC TRMS current
- AC+DC measurements
- AC voltage measurement with low impedance "LoZ"
- "VoltSense" for AC voltage detection without contact
- Resistance and Continuity test
- Frequency
- Diode test
- Capacity
- Temperature with K-type probe
- Data HOLD, MAX/MIN/PEAK
- Relative measurement
- Automatic/Manual Range
- Backlight, Bargraph
- Auto Power OFF



Main features

Display:	LCD, 4 digits, 6000 dots
Power supply:	1x9V alkaline battery type 6F22
Battery life:	150 hours
Auto Power OFF:	after 20 minutes' idling
Safety:	IEC/EN61010-1
Measurement category:	CAT III 1000V, CAT IV 600V
Insulation:	Double insulation
Pollution level:	2
Max height:	2000m
Size (LxWxH):	190x94x48mm
Weight (batteries included):	460g



Included accessories

4413-2	Pair of test leads
TK101	K-type wire probe
T10	Adapter for K-type probes
	Protective case, battery and user manual



Technical Specifications

DC voltage

- Measuring range: 0.01mV ÷ 1000V
- Resolution: 0.01mV ÷ 0.1V
- Basic accuracy: ±(0.08%reading + 2 digits)
- Protection: 1000V DC/ACrms

AC TRMS voltage

- Measuring range: 0.01mV ÷ 1000V
- Resolution: 0.01mV ÷ 0.1V
- Basic accuracy: ±(0.8%reading + 5 digits)
- Protection: 1000V DC/ACrms

DC current

- Measuring range: 0.01mA ÷ 10A
- Resolution: 0.01mA ÷ 0.01A
- Basic accuracy: ±(0.8%reading + 3 digits)
- Protection: Fuse F440mA/1000V - Fuse F11A/1000V

AC TRMS current

- Measuring range: 0.01mA ÷ 10A
- Resolution: 0.01mA ÷ 10A
- Basic accuracy: ±(1.2%reading + 3 digits)
- Protection: Fuse F440mA/1000V - Fuse F11A/1000V

Resistance and Continuity test

- Measuring range: 0.1Ω ÷ 40MΩ
- Resolution: 0.1Ω ÷ 0.01MΩ
- Basic accuracy: ±(0.8%reading + 2 digits)
- Continuity test: <30Ω
- Protection: 1000V DC/ACrms

Frequency

- Measuring range: 0.01Hz ÷ 100kHz
- Resolution: 0.01Hz ÷ 0.01kHz
- Basic accuracy: ±(0.1%reading + 2 digits)
- Protection: 1000V DC/ACrms

Capacity

- Measuring range: 0.001μF ÷ 10mF
- Resolution: 0.001μF ÷ 0.01mF
- Basic accuracy: ±(1.2%reading + 2 digits)
- Protection: 1000V DC/ACrms

Temperature with K-type probe

- Measuring range: -40°C ÷ 400°C
- Resolution: 0.1°C
- Basic accuracy: ±(1.0%reading + 10 digits)
- Protection: 1000V DC/ACrms



TRMS

YouTube

ORDER CODE **HR000712**

HT712

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

Model **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



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

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



Included accessories

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



Main features

Display:	LCD, 3 3/4 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

ORDER CODE **HR000211** | **HR000021** | **HR00025N**

HT211|HT21|HT25N

COMPACT DIGITAL MULTIMETERS IN CAT III



Models HT21, HT210 and HT25N are compact digital multimeters capable of carrying out mainly measurements of **AC/DC voltage** up to **600V** and **DC current** up to **10A** (HT25N) with complementary functions of **Resistance**, **Continuity test**, **Diode test** and **9V** and **1.5V alkaline battery tests**. These devices have been designed in compliance with **safety standard IEC/EN61010-1** with double protective insulation in **CAT III 600V**. They are provided with a wide LCD display with backlight and each function can be selected through its relevant switch. A further function of this device is Data HOLD to freeze data on the display and REL for relative measurements. HT210 also offers the possibility of measuring **temperature with the provided K-type probe**, but also with the optional TK1xx probes.



Functions

	HT211	HT21	HT25N
TRMS	•	-	-
AC / DC voltage	•	•	•
AC / DC current	•	-	• DC
Resistance / Continuity test	•	•	•
Frequency	•	•	-
Capacity	•	•	-
Diode test	•	•	•
Duty Cycle	•	•	-
Temperature with K-type probe	•	-	-
Battery test 1.5V/9V	-	-	•
Data HOLD	•	•	•
Relative measurement	•	•	-
Backlight	•	•	•
Auto Power OFF	•	•	•



Main features

Display:	LCD 3½ digits, 2000 dots (HT25N) 4 digits LCD display, 4000 dots, decimal sign and point (HT21) 3¾ digits LCD display, 4000 dots plus decimal sign and point (HT211)
Power supply:	1x9V batteries type IEC 6F22 (HT21, HT25N) 2x1.5V batteries type AAA IEC LR03 (HT211)
Auto Power OFF:	after 15 minutes' idling (HT211) after 30 minutes' idling (HT21)
Safety:	IEC/EN 61010-1
Measurement category:	CAT III 600V
Pollution level:	2
Insulation:	double insulation
Size (LxWxH):	145x70x60mm
Weight (batteries included):	210g (HT21, HT211), 255g (HT25N)



Included accessories

KIT4000A	Pair of test leads
	Adapter T10 + K-type wire probe (HT211)
	Soft carrying bag for (HT21, HT211)
	Batteries and user manual



Technical Specifications

	HT21 - HT211	HT25N
DC voltage		
Measuring range:	20mV ÷ 600V	1mV ÷ 600V
Resolution:	0.001V÷1V	0.1mV÷1V
Basic accuracy:	±(1.2%reading + 2digits)	±(1%reading+ 3digits)
Protection:	600VDC	200Vrms for scale 200.0mV 600V AC/DC
AC voltage		
Measuring range:	20mV ÷ 600V	1V ÷ 600V
Resolution:	0.001V÷1V	0.1V ÷ 1V
Basic accuracy:	±(1.2%reading + 4digits)	±(1.5%reading+12digits)
Protection:	600VAC	600VAC
DC current		
Measuring range:	400.0µA ÷ 10A AC/DC (HT211)	2mA ÷ 10A DC
Resolution:	0.1µA ÷ 0.01A (HT211)	1µA ÷ 0.01A
Basic accuracy:	±(1%reading+3digits) (HT211)	±(1.5%reading+3digits)
Protection:	Rapid fuse 500mA / 600V Quick fuse 10A / 600V for scale 10A (HT211)	Rapid fuse 200mA / 600V Quick fuse 10A / 600V for scale 10A
Battery test		
Measuring range:	-	1.5 / 9V
Resolution:	-	1.5V=1mV / 9V=10mV
Basic accuracy:	-	±(1.5%reading+3digits)
Protection:	-	1.5V=100mA / 9V=6mA

HT21 - HT211

HT25N

Resistance and Continuity test		
Measuring range:	2Ω ÷ 40MΩ	1Ω ÷ 2MΩ
Resolution:	0.1Ω ÷ 0.01MΩ	0.1Ω ÷ 1KΩ
Basic accuracy:	±(1%reading + 2digits)	±(1.2%reading + 4digits)
Continuity test	<150Ω	<60Ω
Protection:	250Vrms	250Vrms < 15sec
Frequency		
Measuring range:	25mHz ÷ 10MHz	-
Resolution:	0.001Hz ÷ 10KHz	-
Basic accuracy:	±(1.2%reading + 3digits)	-
Protection:	250Vrms	-
Capacity		
Measuring range:	0.2nF ÷ 100µF	-
Resolution:	0.01nF ÷ 0.1µF	-
Diode test		
Resolution:	1mV	1mA
MAX Open-circuit voltage:	1.5VDC	2.8VDC
Basic accuracy:	±(10%reading+5digits)	ND
Duty Cycle		
Measuring range:	0.5% ÷ 99%	-
Resolution:	0.1%	-
Basic accuracy:	±(1.2%reading + 2digits)	-
Protection:	250Vrms	-
Temperature with K probe (only HT211)		
Measuring range:	-20°C ÷ 760°C	-
Resolution:	0.1°C ÷ 1°C	-
Basic accuracy:	±(3%reading + 5°C)	-



ORDER CODE **HR000012**

HT12

POCKET DIGITAL MULTIMETER WITH INTEGRATED
AC/DC 60A FORK CLAMP METER

Model HT12 is a **super compact** digital multimeter capable of carrying out measurements of **Voltage up to 600V, AC/DC current up to 60A** with **integrated clamp sensor** and complementary functions of **Resistance, Continuity test** and **Frequency**. This device has been designed in compliance with **safety standard IEC/EN61010-1** with double protective insulation in **CAT III 300V, CAT II 600V**. Further functions are **Data HOLD** to freeze data on the display and the **Auto Power OFF** function after 10 minutes' idling, in order to preserve the internal battery. The device is housed in a **protective case** which is also used to rewind the test leads.



ORDER CODE **HR00014D**

HT14D

POCKET DIGITAL MULTIMETER



Model HT14D is a **compact** digital multimeter capable of carrying out mainly measurements of **AC/DC voltage up to 500V** and **DC current up to 200mA** with complementary functions of **Resistance, Diode test** and **9V alkaline battery test**. This device has been designed in compliance with **safety standard IEC/EN61010-1** with double protective insulation in **CAT III 300V**. HT14D is provided with a wide **LCD display** and each function may be selected through its relevant switch. A further function of this device is **Data HOLD** to freeze data on the display.



Functions

- DC/AC voltage
- AC/DC current integrated clamp sensor
- Resistance and continuity test with buzzer
- Current and voltage frequency
- Data HOLD
- Automatic / manual selection of measuring range
- Auto Power OFF



Main features

Display:	LCD, 3¾ digits, 3400 dots
Power supply:	2x1.5V battery type AAA LR03
Auto Power OFF:	after 10 minutes' idling
Safety:	IEC/EN 61010-1
Measurement category:	CAT III 300V, CAT II 600V
Pollution level:	2
Insulation:	double insulation
Size (LxWxH):	128x87x24mm
Weight (batteries included):	210g



Technical Specifications

DC voltage

- Measuring range: 0mV ÷ 600V
- Resolution: 0.001mV ÷ 0.1V
- Basic accuracy: $\pm(1.5\% \text{reading} + 4 \text{digits})$
- Protection against overcharge: 720VDC/AC for 10 seconds

AC voltage

- Measuring range: 0V ÷ 600V
- Frequency band: 50Hz ÷ 400Hz
- Resolution: 0.001V ÷ 1V
- Basic accuracy: $\pm(1.5\% \text{reading} + 5 \text{digits})$
- Protection against overcharge: 720VDC/AC for 10 seconds

AC/DC current integrated clamp sensor

- Measuring range: 0A ÷ 60A
- Resolution: 0.1A
- Frequency range: 50Hz ÷ 60Hz
- Basic accuracy: $\pm(2\% \text{reading} + 5 \text{digits})$
- Protection against overcharge: 72A DC/AC for 10 seconds

Resistance and Continuity test

- Measuring range: 0Ω ÷ 34MΩ
- Resolution: 0.1Ω ÷ 0.01MΩ
- Basic accuracy: $\pm(1\% \text{reading} + 3 \text{digits})$
- Protection against overcharge: 720VDC/AC for 10 seconds
- Continuity buzzer: $R < 30\Omega \pm 10\Omega$

Frequency

- Current measuring range: 0Hz ÷ 10kHz
- Voltage measuring range: 0Hz ÷ 300kHz
- Basic accuracy: $\pm(0.1\% \text{reading} + 1 \text{digit})$
- Resolution: 0.001kHz ÷ 0.01MHz
- Protection against current overcharge: 72A DC/AC for 10 seconds
- Protection against voltage overcharge: 720VDC/AC for 10 seconds



Functions

- DC/AC voltage
- DC current
- Resistance and Continuity test
- Diode test
- Battery test 9V
- Data HOLD



Main features

Display:	LCD, 3¾ digits, 2000 dots
Power supply:	1x12V batteries type MS21/MN21
Safety:	IEC/EN61010-1
Insulation:	double insulation
Pollution level:	2
Size (LxWxH):	105x50x25mm
Weight (batteries included):	100g



Technical Specifications

DC voltage

- Measuring range: 200mV ÷ 500V
- Resolution: 0.1mV ÷ 1V
- Basic accuracy: $\pm(0.5\% \text{rdg} + 2 \text{digits})$

AC voltage

- Range: 1V ÷ 500V
- Resolution: 0.1V ÷ 1V
- Basic accuracy: $\pm(1.2\% \text{rdg} + 10 \text{digits})$

Resistance and Continuity test

- Measuring range: 1Ω ÷ 2000Ω
- Resolution: 0.1Ω ÷ 1kΩ
- Basic accuracy: $\pm(0.8\% \text{rdg} + 4 \text{digits})$

DC current

- Measuring range: 2000μA ÷ 200mA
- Resolution: 1μA ÷ 0.1mA
- Basic accuracy: $\pm(1.2\% \text{rdg} + 2 \text{digits})$



Included accessories

Anti-shock protection shell
Integrated measuring leads and clamp meter
Batteries and user manual



Included accessories

KIT4000A	Measuring leads
	Batteries and user manual

ORDER CODE **HR000100** / **HR000008** / **HR000007** / **HR000006**

HT10|HT8|HT7|HT6

TWO-POLE MULTIFUNCTION TESTERS WITH IN-BUILT LED TORCH



You Tube



HT10, HT8, HT7 and HT6 are designed to carry out the measurements of a digital tester in a practical, quick and functional way thanks to their narrow and long structure, which allows carrying out measurements in any operating conditions. These devices carry out measurements of **AC/DC voltage** with **polarity indication**, **continuity tests** with buzzer and **phase sequence detection** with LED indications and **Display reading**. In addition HT8 and HT6 carry out diode tests, while HT10 and HT7 carry out measurements of AC voltage with low input impedance. **HT10 performs RCD 30mA testing as well**. All meters are provided with a **white LED torch** for use in poorly lit environments, and **comply with safety requirements** of **standards IEC/EN61243-3:2014/VDE 0682** ensuring safe and reliable working conditions. The instruments **indicate whether a dangerous voltage is present, even if there is no battery power supply** or a failure of the main circuit. The instruments also comply with **IEC/EN61010-1** and **IEC/61010-2-030** in **CAT IV 600V**, **CAT III 690V** (**HT10 CAT IV 600V**, **CAT III 1000V**). **Protection class IP64** (dust and splash-proof) and molded soft rubber grips make HT10, HT8, HT7 and HT6 heavy duty instruments ideal for the **toughest jobs in domestic or industrial applications**.



Use of the integrated LED torch.



Phase detection function through conductive button.



Multimeter function with display and LED indication.



Measurement of phase sequence.



Functions

	HT10	HT8	HT7	HT6
AC/DC Voltage	• (1000V)	• (690V)	• (690V)	• (690V)
AC Voltage with 1 terminal	•	•	•	•
AC Voltage with low impedance input	•	-	•	-
Phase sequence	•	•	•	•
Continuity test with buzzer	•	•	•	•
Resistance measurement	•	-	-	-
Diode test	-	•	-	•
LED indications and sound notifications	•	•	•	•
LCD display	•	•	•	-
Integrated torch	•	•	•	•



Main features

Display:	LCD, 4digits, 6900 dots (HT8) LCD, 3½ digits, 1999 dots (HT7, HT10)
Power supply:	2x1.5V battery type AAA LR03
Safety:	IEC/EN61010-1, IEC/EN61010-2-030 (HT8), IIEC/EN61243-3:2014
Measurement category:	CAT IV 600V - CAT III 690V (HT7, HT8) CAT IV 600V - CAT III 1000V (HT10)
Pollution level:	2
Insulation:	double insulation
Size (LxWxH):	255x60x35mm (HT6, HT8) 240x78x40mm (HT7) 270x70x30mm (HT10)
Weight (batteries included):	170g (HT6, HT8) 240g (HT7) 290g (HT10)



Technical Specifications

	HT10	HT8	HT7	HT6
DC/AC voltage				
Measuring range:	6V ÷ 1000V	10V ÷ 690V	6V ÷ 690V	12V ÷ 690V
Frequency band:	40Hz ÷ 400Hz	16Hz ÷ 400Hz	50Hz ÷ 60Hz	16Hz ÷ 400Hz
Resolution:	1V	0.1V	1V	1V
Basic accuracy:	±(3%reading + 5digits)	±(3%reading + 5digits)	±(1%rdg+3dgt) (DC) ±(1.5%rdg+5dgt) (AC)	In compliance with EN61243-3
Protection against overcharge:	1000VDC/AC	690VDC/AC	690VDC/AC	690VDC/AC
AC voltage with 1 terminal				
Measuring range:	100V ÷ 1000V	100V ÷ 690V	100V ÷ 690V	100V ÷ 690V
Frequency band:	50Hz ÷ 400Hz	50Hz ÷ 60Hz	50Hz ÷ 60Hz	50Hz ÷ 60Hz
Protection against overcharge:	1000VDC/AC	690VAC	690VAC	690VAC
Phase sequence				
Measuring range:	100V ÷ 1000V	120V ÷ 400V (Phase-Earth)	100V ÷ 690V	120V ÷ 400V (Phase-Earth)
Frequency band:	50Hz ÷ 60Hz	50Hz ÷ 60Hz	50Hz ÷ 60Hz	50Hz ÷ 60Hz
Protection against overcharge:	1000VDC/AC	690VAC	690VAC	690VAC
Continuity test with LED and buzzer				
Measuring range:	0Ω ÷ 400kΩ	0Ω ÷ 500kΩ	0Ω ÷ 200kΩ	0Ω ÷ 500kΩ
Test current:	<5μA	<7μA	<1μA	<7μA



Included accessories

	Protection cap for lead, 2 pieces
	Adapter 4mm for lead, 2 pieces
PR9	Mobile lead (HT6, HT8)
	Batteries and user manual



Optional accessories

PR9	Mobile lead (HT6, HT8)
B71	Carrying bag (HT7)