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Product Catalog

Philippines



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Precision You Can **Trust.** Expertise You Can **Rely On.**

For over four decades, HT Instruments has been a trusted name in electrical testing and measurement, delivering innovative solutions engineered in Italy and relied upon by professionals across the globe. Built on a commitment to precision, safety, and continuous innovation, HT Instruments empowers electrical engineers, maintenance teams, and power professionals to perform with confidence in every application.

In the **Philippines**, **VCP Trading International Corporation** proudly serves as the Exclusive Distributor of HT Instruments, bringing world-class testing technology closer to Filipino industries. More than supplying premium instruments, we provide complete technical support, product consultation, calibration assistance, and after-sales service to ensure every customer receives lasting value from their investment.

What truly sets us apart is our team of experienced engineers who understand the challenges faced in the field. Through technical demonstrations, application support, training, and engineering expertise, we help businesses maximize the capabilities of HT Instruments and achieve safer, more reliable, and more efficient electrical systems. Together, HT Instruments and VCP Trading International Corporation are committed to empowering the Philippine industry with trusted technology, engineering excellence, and solutions that drive progress.

Calibration & Repair

VCP Trading provides reliable calibration and repair services for HT Instruments. Selected instruments are calibrated locally, while advanced testers are sent to HT Instruments Italy for factory-level calibration and servicing, ensuring the highest standards of accuracy and performance.

More Than a Distributor

At VCP Trading, we don't just supply HT Instruments, we empower our customers. Our qualified electrical engineers provide expert guidance, application support, and product demonstrations to help you confidently operate and maximize every HT Instruments solution.

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Trusted by Filipino Electrical Engineers Nationwide

Built on Italian engineering and European quality standards, HT Instruments delivers the precision, reliability, and ease of use that electrical professionals rely on every day. From power quality analysis to solar testing, it's the trusted choice for accurate and dependable measurements.



POWER QUALITY ANALYZERS



VEGA74 **pag. 70**



PQA820
PQA819 **pag. 72**



HT9023 **pag. 75**



MAINS
ANALYZERS

MAINS QUALITY ANALYZERS



MAIN MEASUREMENTS	MAINS QUALITY ANALYSIS			
AC/DC voltage in single-phase/three-phase systems	●	●	●	● Single-phase
AC/DC current in single-phase/three-phase systems	●	●	●	● Single-phase
Cosphi, Power Factor	●	●	●	● Single-phase
Voltage unbalance (NEG%, ZERO%)	●	●		
Active, reactive, apparent power/energy and DC power	●	●	●	●
Voltage and current harmonics up to the 49th with calculation of THD%	●	●	● Only THD	● 25 ^a
Voltage anomalies (dips, peaks) with a resolution of 20ms (@ 50Hz)	●	●		
Electric motor starting current (INRUSH)	● minimum duration of the event 320ms			● minimum duration of the event 1ms
Phase sequence	●	●	●	●
Neutral current	●	●		●
Recording of temperature and humidity	● **			
Recording of illuminance values LUX	● ***			
Recording of leakage current	****			

MEMORY AND RECORDING

Max number of simultaneously recorded parameters	600	383	44	60
Recording with selectable integration period	2s-30min	5s-60min	5s-60min	1s-15min
Indicative memory duration (in days @ PI=10min @ max number of parameters)	28 days	30 days	153 days	50 days
Internal memory capacity	8MB	8MB	8MB	2MB
Saving instant sampled values	●	● *	● *	● *

REAL-TIME DISPLAY

Summary table of main parameters	●	● *	● *	● *
Voltage/current waveforms	●	● *	● *	● *
Tables or histograms of Harmonics and THD%	●	● *	● *	● *
Voltage/current vector diagram	●	● *	● *	● *

ADDITIONAL CHARACTERISTICS

Overvoltage category:	CAT IV 300V	CAT IV 300V	CAT IV 300V	CAT IV 600V CAT III 1000V
Touchscreen colour display	●			
Power supply and rechargeable battery recharging	●	● Auto power supplied	● Auto power supplied	
Auto power off	●	●	●	●
Provided PC interface with software for Windows	WiFi/USB	WiFi/USB	WiFi/USB	WiFi
Context help active on each screen	●			
Size (LxWxH) (mm)	235x165x75	245x210x110	245x210x110	252x88x44
Weight in kg (batteries included)	1	1.5	1.5	0.5
Reference standard for mains quality	IEC/EN61000-4-30 Class B	IEC/EN61000-4-30 Class B	IEC/EN61000-4-30 Class B	IEC/EN61000-4-30 Class B
Reference standard for safety	IEC/EN61010-1	IEC/EN61010-1	IEC/EN61010-1	IEC/EN61010-1
ORDER CODE	HV000740	HV000820	HV000819	HP009023

(*) By using software TOPVIEW
(**) with optional probe HT53L/05
(***) with optional probe HT52/05
(****) by means of optional clamp transducer HT96U

ORDER CODE HV000740

VEGA74

Three-phase mains analyzer



VEGA74 is a single-phase/three-phase mains analyzer capable of acquiring and recording simultaneously 600 electric parameters. The use of VEGA74 is simple and intuitive, thanks to the interface with colour touchscreen display with icon structure. VEGA74 is ideal for troubleshooting problems deriving from a poor mains quality, voltage anomalies, harmonics and high energy consumption which can become much more harmful and complex phenomena to keep under control if neglected for too long. Measurements carried out can be transferred to a PC with USB or WiFi connection via the dedicated management software in order to analyze the data and create print reports.

SEE
PRODUCT
DATA SHEET
VEGA74

Batteries always charged.

The new **VEGA74** is so compact that we had to develop a brand new technology for its power supply and charging system. You just need to connect VEGA74 to power supply and the batteries will charge. If you have no time for recharge, just replace them with common AA batteries and resume working immediately.



Functions
Mains analysis

- › 9 types of electric systems available
- › DC/AC TRMS voltage in single-/three-phase systems up to 600V
- › DC/AC TRMS current in single-/three-phase systems up to 3000A
- › Active, Reactive and Apparent Power/Energy
- › Cosphi and Power Factor
- › Voltage, Current, DC Power
- › Measurement of neutral current
- › Voltage dips and peaks on 20ms @50hz
- › Voltage unbalance (NEG%, ZERO%)
- › Voltage/current waveforms
- › Histograms of voltage/current harmonics and THD%
- › Voltage/current vector diagram
- › Periodical recording with selectable between 2s and 30min
- › Max number of simultaneously selectable quantities 600
- › Voltage/current harmonic analysis up to the 49th
- › Calculation and recording of voltage/current THD%
- › Indication of recording duration
- › Recording of leakage current

Recording of
environmental parameters

- › Recording of temperature and humidity
- › Recording of illuminance values LUX

Provided accessories

HTFLEX33E	Flex clamp 3000A, diameter 174mm, 4 pieces
KIT799	Set of 4 cables e 4 alligator clips
PT400	Touch-screen pen
VA500	Rigid transport case for device and accessories
YABAT0003000	1.2V NiMH AA rechargeable battery, 6 pieces
A0061	100/440Vac 50/60Hz - 15 Vdc power supply
C2006	Optical/USB cable
	Quick user guide
	ISO calibration report

Optional accessories



SCAN THE QR CODE
TO DISCOVER ALL
OPTIONAL ACCESSORIES

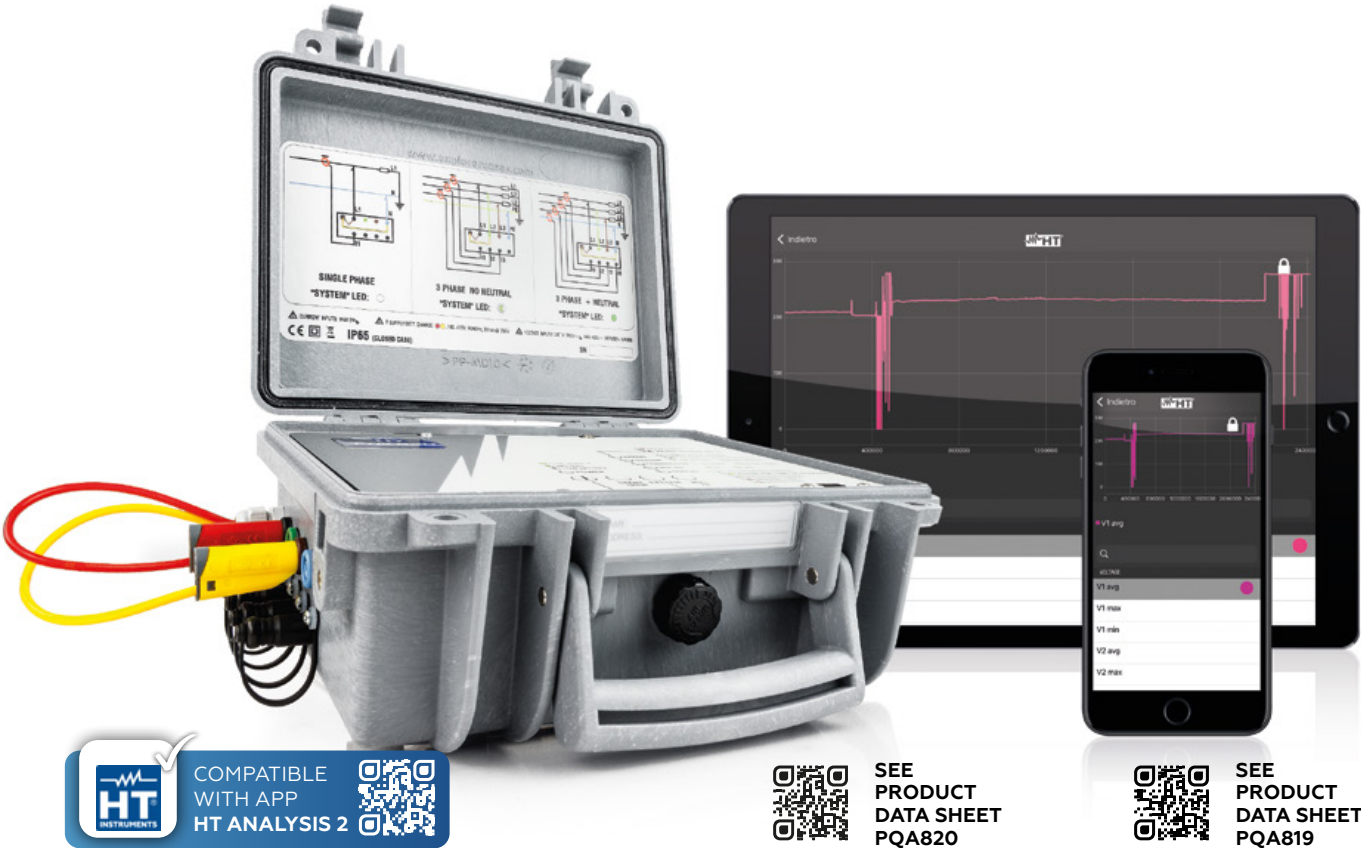
ORDER CODE HV000820

PQA820

ORDER CODE HV000819

PQA819

Three-phase and single-phase mains analyzers



PQA820 e PQA819 are the **innovative** proposal by HT to **easily analyze** all involved components on a **three-phase** or **single-phase** electric system.

When designing them, HT has taken particular care of three aspects: **setting**, the operating or storage environment and data transfer.

- PQA820 and PQA819 **do not need to be set**. They simply need to be connected, started and they respectively record 383 and 44 quantities simultaneously.

- They are provided with a comfortable **IP65** case, which allows working **in any kind of environment**.

- When recording has finished, **thanks to the Wi-Fi connection**, the devices are capable of transferring all data onto a **tablet, smartphone or PC**.

Further to the Wi-Fi connection, PQA devices are provided with USB connection for transferring data via cable to the PC through **the provided TopView software**.

They do not need any batteries since they are **auto power-supplied** from the mains they are analyzing.

The **internal battery is automatically recharged** by the input voltage and will provide the necessary energy to **go on recording in case power supply is interrupted**.

To make the most of the technology used by PQA820 and PQA819, we recommend using the **Htanalysis 2 App** (available for **free download** on AppStore and Google Play) on a tablet or smart phone.

Here are some of the functions of HTanalysis:

- Display of measured data on high-definition screen.
- Possibility of "scrolling" through a determined waveform and immediately detecting its critical "moments": it will be sufficient to "touch" a certain spot of the screen in which the measured signal is proposed to immediately obtain all the necessary information to understand what happened in that spot and in that particular moment!

PQA820 and PQA819 respectively record 383 and 44 quantities which can be **recalled and dragged onto the screen** to be **compared between each other**; for example, if you are displaying the trend of voltages and **you want to check for the possible presence of harmonic distortion**, it will be sufficient to scroll through the list of recorded measures and **drag the one relevant to harmonics to the screen**.

The same can be done for all other quantities: **power, cosphi, current, energy**, etc.

Everything can then be shared on **HT Cloud**, the web database created by HT to **archive** recordings and **share them** quickly with anyone around the world.

Functions

- › AC TRMS voltage in single-phase/three-phase systems
- › AC TRMS current in single-phase/three-phase systems
- › Active, Reactive and Apparent Power/Energy
- › Cosphi and Power Factor
- › Voltage, Current, DC Power
- › Neutral current (PQA820 only)
- › Voltage dips and peaks current with resolution 10ms (PQA820 only)
- › Voltage unbalance (NEG%, ZERO%) (PQA820 only)
- › Measurements using external TA and TV
- › Voltage/current waveforms
- › Histograms of voltage/current harmonics and THD%
- › Voltage/current vector diagram
- › Periodical recording with selectable PI
- › Maximum number of simultaneously recorded quantities
PQA820: 383 PQA819: 44
- › Voltage and current harmonic analysis up to the 49th
- › Calculation and recording of voltage/current THD%
- › Indication of recording duration

Characteristics

Power supply:	rechargeable Li-ION battery
External power supply:	100 ÷ 415V, 50/60Hz
Recording duration	> 30 days (@ PI = 10min) (PQA820) > 230 days (@ PI =15min) (PQA819)
Recording period:	5, 10, 30s, 1, 2, 5, 10, 15, 60min
PC interface:	USB 2.0 and Wi-Fi
Safety:	IEC/EN61010-1, double insulation
Mechanical protection:	IP65 (closed case)
Overvoltage category:	CAT IV 300V, max 415V between inputs
Reference standards:	EN50160
Operating temperature:	0 ÷ 40°C
Operating humidity:	<80%RH
Storage temperature:	-10 ÷ 60°C
Storage humidity:	<80%RH
Size:	235x165x75mm
Weight (battery included):	approx 0.7kg

Provided accessories

KITMPPACW	Set of 4 measuring cables
KITMPPACC	Set of 4 alligator clips
606-IECN	Adapters with magnetic terminal (4x)
HTFLEX33L	Flex 1000A AC clamp, 174mm (4x)
C2007	USB cable
BORSA2051	Carrying bag for accessories
	Quick user guide
	ISO calibration report

Optional accessories



SCAN THE QR CODE TO DISCOVER ALL OPTIONAL ACCESSORIES



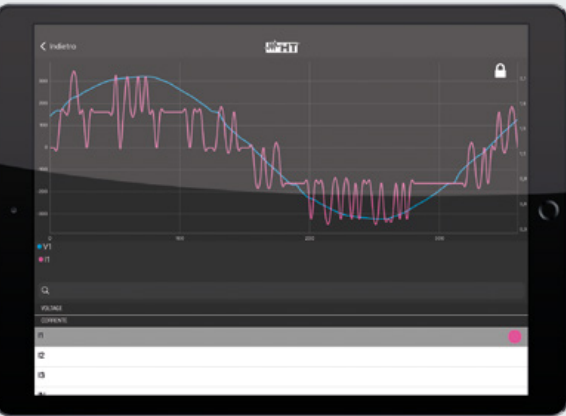
GSC60

PQA820

PQA819

HT9023

With
HTANALYSIS™



Voltage and current waveforms.



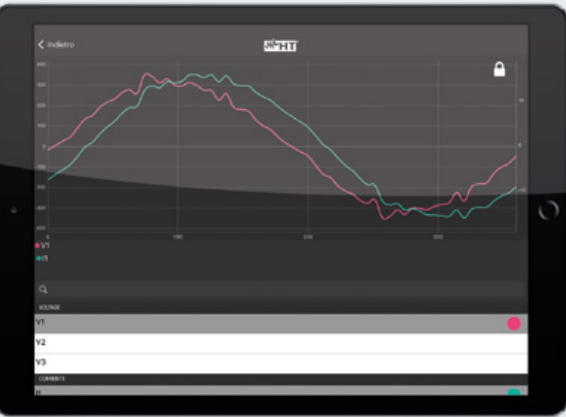
Current and voltage harmonics.



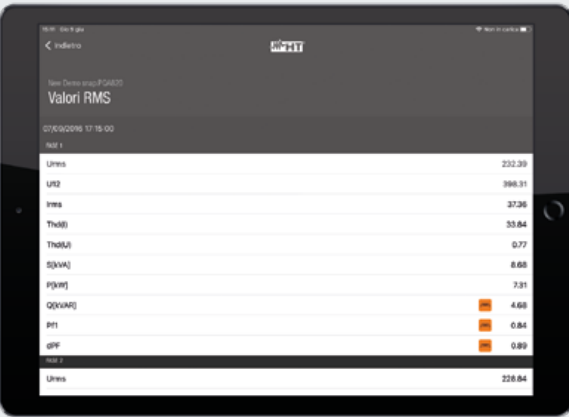
Voltage and current vector diagram.



Zoom on a voltage and current drop.



Jump function
1. Click on the arrow next to the desired value.



Jump function
2. It switches to harmonic values in real-time.

ORDER CODE **HP009023**

HT9023

Professional clamp meter for measuring power/
harmonics with WIFI connection



SEE
PRODUCT
DATA SHEET
HT9023

HT9023 has been designed to measure **AC current**, **DC AC+DC up to 1000A** in **TRMS** reaching **CAT IV 600V** and **CAT III 1000V** in compliance with **safety standard IEC/EN61010-1**. The clamp also measures **DC voltage up to 1500V**, **AC, AC+DC voltage up to 1000V**, **Active, Reactive, Apparent Power**, **Power factor**, **Energy**, **voltage/current harmonic analysis up to the 25th with THD% calculation** in balanced single-phase and three-phase systems. It is also possible to carry out the phase sequence test with 1 terminal. The instrument also detects the events linked to motor starting currents (Dynamic INRUSH) and allows recording each measured electric parameter over time, with the possibility of transferring data via WiFi to Android/iOS devices through the HTAnalysis 2 App or onto PC through the TOPVIEW software. The clamp is provided with a wide graphic dot-matrix screen (128x128pxl) with backlight, in order to allow reading data even in poorly lit environments, and it is provided with an auto power off function to preserve its internal battery.

Functions

- › DC, AC + DC TRMS current up to 1000A
- › DC voltage up to 1500V
- › AC, AC+DC TRMS voltage up to 1000V
- › Resistance and Continuity test
- › "VoltSense" for AC voltage detection
- › Frequency with clamp jaws and leads
- › Phase sequence / Phase concordance with 1 terminal
- › Measurement/recording of DC power and energy
- › Measurement/recording of active, reactive, apparent power in single-phase systems
- › Measurement/Recording of active, reactive power in single-phase systems
- › Measurement/Recording of power factor in single-phase systems
- › Measurement/Recording of voltage/current harmonics up to the 25th and calculation of THD%
- › Motor starting current detection (Dynamic INRUSH)
- › Data logger function with programmable PI
- › Autorange
- › Data HOLD
- › MAX/MIN/AVG
- › PEAK (1ms), ZERO
- › Backlight
- › WiFi for connection to PC and Android/iOS devices
- › Auto Power OFF

Characteristics

- Display:** dotmatrix 128x128pxl with backlight
- Conversion type:** TRMS
- Power supply:** 2x1.5V batteries type AAA LR03
- Duration:** > 40ore
- Internal memory:** 2MBytes (approx. 5g @IP=1min)
- PC interface:** WiFi
- Clamp jaw internal diameter:** 45mm
- Safety:** IEC/EN61010-1
- Overvoltage category:** CAT IV 600V - CAT III 1000V
- Insulation:** double insulation
- Pollution level:** 2
- Size (LxWxH):** 252x88x44mm
- Weight (batteries included):** 420g

Provided accessories

YAAMK0000HTO	Pair of test leads
YAAMK0001HTO	Pair of alligator clips
YABRS0000NNO	Carrying bag
	Batteries
	ISO calibration report
	Quick user guide

Optional accessories



SCAN THE QR CODE
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OPTIONAL ACCESSORIES





XL421
XL422

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XL423
XL424

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DATALOGGER



DATALOGGER



MAIN MEASUREMENTS	DATA LOGGERS			
	XL421	XL422	XL423	XL424
TRMS	●	●	●	●
AC voltage in single-phase/three-phase systems			● Single-phase	● Single-phase / three-phase
AC current in single-phase/three-phase systems	● Single-phase	● Single-phase / three-phase		
MEMORY AND RECORDING				
Max number of simultaneously selectable parameters	1	3	1	3
Recording with selectable integration period	1s, 6s, 30s, 1min, 5min	1s, 6s, 30s, 1min, 5min	1s, 6s, 30s, 1min, 5min	1s, 6s, 30s, 1min, 5min
Indicative memory duration (single-/three-phase in days @ PI=5min)	455	455 / 1820*	455	455 / 1820*
Internal memory capacity	1MB	1MB	1MB	1MB
ADDITIONAL CHARACTERISTICS				
Protection rating	IP65	IP65	IP65	IP65
Overvoltage category:	CAT IV 600V CAT III 1000V	CAT IV 600V CAT III 1000V	CAT IV 600V CAT III 1000V	CAT IV 600V CAT III 1000V
Power supply	2x batteries AA	2x batteries AA	2x batteries AA	2x batteries AA
Provided PC interface with software for Windows	●	●	●	●
Size (LxWxH) (mm)	120x80x43	120x80x43	120x80x43	120x80x43
Weight (batteries included):	500g	500g	500g	500g
Reference standard for safety	IEC/EN61010-1	IEC/EN61010-1	IEC/EN61010-1	IEC/EN61010-1
ORDER CODE	HV000421	HV000422	HV000423	HV000424

ORDER CODE HV000421
XL421

ORDER CODE HV000422
XL422

TRMS single-phase and three-phase current data logger



 SEE
PRODUCT
DATA SHEET
XL421

 SEE
PRODUCT
DATA SHEET
XL422

XL421 and XL422 are **Data Loggers** capable of measuring and recording the the true root mean square (**TRMS**) values of Current up to **2500A AC** in, **according to the model, single-phase or three-phase** electric systems for different applications (evaluation of load currents, rated powers of transformers, etc.). The devices have a comfortable mobile structure with built-in flex clamp jaws which allow surrounding also a big-sized cable or bar. Thanks to a an advanced memory management algorithm it is possible to monitor a system even for a long time. The devices start recording with a **sampling period** which can be **selected** through software among 1, 6, 30 and 60 seconds and, when memory is almost full, the previously recorded values are “re-sampled” according to the subsequent value of the sampling period, thus freeing part of the memory; the devices then go on recording new values, using the new measuring interval. In this way, it is possible to keep the device recording up to **approximately 1 year according to the model**. Each recording is kept stored in the internal memory and can be **downloaded and managed by PC** always through a dedicated software. A special adhesive strap is also provided with the devices, which makes it possible to place them in any place in the installation where measuring is needed. The high protection rating (**IP65**) makes these devices fully reliable also under extreme operating conditions.

 Functions

- › TRMS single-phase current measurement (XL421)
 - › TRMS three-phase current measurement (XL422)
 - › Measuring range: 1 ÷ 2500A AC
 - › Accuracy: ±(1.0%reading+1 digit)
 - › Resolution: 1A
 - › Operating frequency: 50±6Hz, 60±6Hz
 - › Bandwidth: 3200Hz
 - › Sampling frequency: 64 spots in 20ms
 - › Integration Period: 1s, 6s, 30s, 60s, 5min
 - › Memory capacity: 1Mbyte
 - › Serial interface: RS-232
 - › Integration period.....Duration in days:
 - 1s 5 (XL421) 1.5 (XL422)
 - 6s 34 (XL421) 8 (XL422)
 - 30s 170 (XL421) 42 (XL422)
 - 60s 364* (XL421) 91 (XL422)
 - 5min 1820* (XL421) 455* (XL422)
 - › Front panel indication: LED diodes
 - › Power supply: 2x1.5V batteries type AA LR6
 - › Battery life: >6months (with loaded batteries)
 - › Safety: IEC/EN 61010-1
 - › Overvoltage category: CAT IV 600V (to earth)
 - › Insulation: Double insulation
 - › Pollution level: 2
 - › Mechanical protection index: IP65
 - › Max height: 2000m
 - › Max diameter of flexible clamps: 174mm
 - › Size (LxWxH): mm 120x80x43
 - › Weight (batteries included): approx. 0.5kg
- *according to battery duration

 Provided accessories

VELCRO	Adhesive strap 50x70mm
C2004	Serial cable
BORSA 2000	Carrying bag (XL421)
BORSA75	Carrying bag (XL422)
	Batteries
	User Manual

 Optional accessories



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OPTIONAL ACCESSORIES



ORDER CODE HV000423
XL423

ORDER CODE HV000424
XL424

TRMS single-phase and three-phase voltage data logger



 SEE
PRODUCT
DATA SHEET
XL423

 SEE
PRODUCT
DATA SHEET
XL424

XL423 and XL424 are **Data Loggers** capable of measuring and recording the true root mean square (**TRMS**) value of Voltage up to 600V AC in, according to the model, in **single-phase or three-phase** electric systems, for different applications (evaluation of mains voltage, load unbalance, etc.). The devices have a comfortable mobile structure with built-in flex clamp jaws which allow surrounding also a big-sized cable or bar. Thanks to a an advanced memory management algorithm it is possible to monitor a system even for a long time. The devices start recording with a **sampling period** which can be **selected** through software among 1, 6, 30 and 60 seconds and, when memory is almost full, the previously recorded values are “re-sampled” according to the subsequent value of the sampling period, thus freeing part of the memory; the devices then go on recording new values, using the new measuring interval. In this way, it is possible to keep the device recording up to **approximately 1 year according to the model**. Each recording is kept stored in the internal memory and can be **downloaded and managed by PC** always through a dedicated software. A special adhesive strap is also provided with the devices, which makes it possible to place them in any place in the installation where measuring is needed. The high protection rating (**IP65**) makes these devices fully reliable also under extreme operating conditions.

 Functions

- › TRMS single-phase voltage measurement (XL423)
 - › AC TRMS three-phase voltage measurement (XL424)
 - › Measuring range: 0 ÷ 600VAC
 - › Accuracy: ±(1.0%reading+1 digit)
 - › Resolution: 0.1V
 - › Operating frequency: 50±6Hz, 60±6Hz
 - › Bandwidth: 3200Hz
 - › Sampling frequency: 64 spots in 20ms
 - › Integration Period: 1s, 6s, 30s, 60s, 5min
 - › Memory capacity: 1Mbyte
 - › Serial interface: RS-232
 - › Integration period.....Duration in days:
 - 1s 5 (XL423) 1.5 (XL424)
 - 6s 34 (XL423) 8 (XL424)
 - 30s 170 (XL423) 42 (XL424)
 - 60s 364* (XL423) 91 (XL424)
 - 5min 1820* (XL423) 455* (XL424)
 - › Front panel indications: LED diodes
 - › Power supply: 2x1.5V batteries type AA LR6
 - › Battery life: >6months (with loaded batteries)
 - › Safety: IEC/EN 61010-1
 - › Overvoltage category: CAT IV 600V (to earth)
 - › Insulation: Double insulation
 - › Pollution level: 2
 - › Mechanical protection index: IP65
 - › Max height: 2000m
 - › Size (LxWxH): mm 120x80x43
 - › Weight (batteries included): approx. 0.5kg
- *according to battery duration

 Provided accessories

KITXL424C	Set of 4 alligator clips
VELCRO	Adhesive strap 50x70mm
C2004	Serial cable
BORSA2000	Carrying bag
	Batteries and user manual

 Optional accessories



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MULTIFUNCTIONAL
TESTERS

MULTIFUNCTIONAL TESTERS

				
	MACROTEST G3	MACROTEST G2	MACROTEST G1	GSC60
ELECTRIC SAFETY MEASUREMENTS	ELECTRIC VERIFICATIONS MAINS ANALYSES			
TRMS	●	●	●	●
Insulation with voltage 50, 100, 250, 500, 1000VDC	●	●		●
Continuity of protective conductors with 200mA	●	●	●	●
Continuity of protective conductors with 200mA up to 10A with optional accessory EQUITEST				
Tripping time of RCDs type AC, A, F, B, B+ DD and Standard, Selective and Delayed CCIDs	● A,F, AC= 1A B, B+= 300mA DD= 6mA			● A,F, AC= 1A B, B+= 300mA
Tripping current of RCDs type AC, A, F, B, B+ , DD and Standard, Selective and Selective CCIDs	● A,F, AC= 1A B, B+= 300mA DD= 6mA			● A,F, AC= 1A B, B+= 300mA
Tripping time and current of RCDs with separate clamp jaws type B, B+, A, F, AC Standard, Selective and Delayed up to 10A	● ***			● ***
Overall earth resistance with no residual current protection tripping	●			● ***
Earth resistance by 4 wires earth resistance method	●	●	●	●
Resistance of the single earth rods with clamp	● **	● **	● **	● **
Ground resistivity by 4-wire method	●	●	●	●
Loop/Line impedance, Phase-Phase, Phase-Neutral, Phase-PE	●			●
Loop/Line impedance Phase-Phase, Phase-Neutral, Phase-PE with high resolution (0.1mΩ)	● *			● *
Measurement of percentage voltage drop on the line	●			●
Contact voltage	●			●
Full test on cable mapping of LAN networks with RJ45				
Phase sequence	●			●
Leakage current with optional clamp meter (accessory HT96U)	●			●
Dielectric strength with test voltage up to 5100V AC				
Measurement of discharge time of internal capacitances				
Measurement of Polarization Index (PI) and Dielectric Absorption Ratio (DAR)				
Safety test of electric car recharging stations (EVSE)	Updatable (CAT IV only)			

MAINS ANALYSIS

Measurement of Voltage, Current, Active, Reactive, Apparent Power	● (1)	● (1)		● (3) with Recording
Measurement of Cosphi, Power Factor	● (1)	● (1)		● (3) with Recording
U/I harmonics up to the 49th +THD% + Voltage anomalies	● 25th no anomalies	● 25th no anomalies		● (3) with Recording

ADDITIONAL CHARACTERISTICS

Overvoltage category:	CAT IV 300V	CAT IV 300V	CAT IV 300V	CAT IV 300V to earth max 600 between inputs
DC/AC TRMS voltage and current, Frequency, Resistance, Continuity with buzzer				
Automatic test	● (Ra, RCD, MΩ)			
Measurement of environmental parameters (°C,°F, %RH, Lux)	●			● with Recording
Test with remote lead PR400	●	●	●	●
Help on line on the display	●	●	●	●
Internal memory for measured data saving	●	●	●	●
Optical/USB serial port for PC connection	●	●	●	●
Built-in WiFi connection and compatibility with app HTANALYSIS 2	●	●	●	●
Size (LxWxH) (mm)	222x162x57	222x162x57	222x162x57	222x162x57
Weight (batteries included):	1.2kg	1.2kg	1.2kg	1.2kg
Reference standard for safety	IEC/EN61010-1	IEC/EN61010-1	IEC/EN61010-1	IEC/EN61010-1
ORDER CODE	HV005036	HV005038	HV005037	HV000060

							
COMBI G2	COMBI 519	EASYTEST	M75	M75L	JUPITER	NEPTUNE	FULLTEST3
ELECTRIC VERIFICATIONS MAINS ANALYSES			ELECTRIC VERIFICATIONS TRMS MULTIMETER				ELECTRIC BOARDS AND MACHINES
●	●	●	●	●	●	●	●
●	●	●	● 250V, 500V	● 250V, 500V		●	●
●	●	●	●	●			●
	●	●					
● A,F, AC= 1A B, B+= 300mA DD= 6mA	● A,F, AC=1A B, B+=300mA DD=6mA CCID=5.20mA	● A,F, AC=1A	● A = 30mA AC = 300mA only standard	● A = 30mA AC = 300mA only standard	● only general A,AC,F up to 300mA		● A,F, AC=1A B,B+=300mA
● A,F, AC= 1A B, B+= 300mA DD= 6mA	● A,F, AC=1A B, B+=300mA DD=6mA CCID=5.20mA	● A,F, AC=1A	● A = 30mA AC = 30mA only standard	● A = 30mA AC = 30mA only standard	● only general A/F,AC 30mA		● A,F,AC =1A B,B+=300mA
● ***							
●	●	●	●	●	●		●
●	●	●			●		●
● *	● *						●
●	●	●					
●	●	●	●	●	●		●
●	●		●	●	●		
●	●	●	●	●	●	●	
							●
							●
●	●	●				●	
● *****							

● (1)							
● (1)							
● 25th					● 25th no anomalies	● 25th no anomalies	

CAT IV 300V			CAT III 550V	CAT III 550V	CAT IV 600V CAT III 690V	CAT IV 600V CAT III 1000V	CAT III 300V CAT III 300V
			●	●	●	●	
● (Ra, RCD, MΩ)	● (Ra, RCD, MΩ)	● (Ra, RCD, MΩ)	● (Ra, RCD, MΩ)	● (Ra, RCD, MΩ)			Programmable by the user
●							
●							
●							
●	●	●					●
●	●	●					● USB
●	●	●					
222x162x57	222x162x57	222x162x57	240x100x45	240x100x45	175x85x55	175x85x55	400x300x170
1.2kg	1.2kg	1.2kg	450g	450g	420g	420g	15kg
IEC/EN61010-1	IEC/EN61010-1	IEC/EN61010-1	IEC/EN61010-1	IEC/EN61010-1	IEC/EN61010-1	IEC/EN61010-1	IEC/EN61010-1
HV0000G2	HV000519	HV000100	HV000075	HV00075L	HR00JUPI	HR00NEPK	HV000003

ORDER CODE **HV000060**

GSC60

A unique instrument for mains analysis and verification of electric safety



GSC60 is the only device which can perform the verification of electric safety according to IEC/EN IEC/EN61010-1 and the analysis of single-phase/three-phase mains and electric consumption. IT has been designed to make the safety of electric systems **visible, understandable** and **assessable** in a **simple** and **quick** way. Thanks to the new **operating system HTOS™ 2.0**, once measurement is complete, the operator receives from the device a message **OK - NOT OK** which communicates whether the part of the tested system is compliant and, therefore, safe. The user interface, totally renewed in HTOS™, allows setting and carrying out measurements in a few simple steps. All recorded data are **saved** and, for each kind of test, it is possible to **create folders and subfolders** and, with the virtual keyboard, **add comments** and **notes**. But, even better, through the FREE APP HTAnalysis 2, **compatible with iOS and Android**, the measurements carried out **can be transferred via Wi-Fi** onto a **smartphone or tablet** and, thanks to this function, it is possible to attach **a picture, a video or a voice note** to every measurement. GSC60 is also a **three-phase mains and electric consumption analyzer** which is unique thanks to the APP HTAnalysis 2.



WATCH THE VIDEO TUTORIAL GSC60



SEE PRODUCT DATA SHEET GSC60

Connected to the whole world.

Thanks to the in-built WiFi connection, exporting data and connecting to App **HTANALYSIS™** is possible in a few simple steps. You can consult your own measurements, upload them onto **HTCloud™** or send them via e-mail. Your team will always be connected with you.

Batteries always charged.

The new **GSC60** is so compact that we had to develop a brand new technology for its power supply and charging system. You just need to connect GSC60 to power supply and the batteries will charge. If you have no time for recharge, just replace them with common AA batteries and resume working immediately.

HTOS™ checks the power.

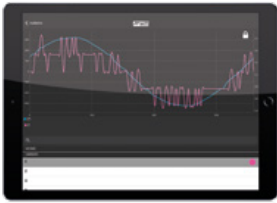
From the Home page, access measurement through the **touch-screen display**, quickly set the measuring parameters and press key GO. Here it is: **HTOS™**, conceived and developed to always be of help. With the results **OK** and **NOT OK** and the **Help OnLine**, it will immediately become your best partner without wasting your time.



Example of display of V-I harmonics



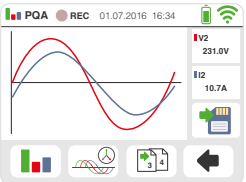
Example of display Real-time phasors



Example of display of V-I Waveforms



Example of display Recording made (evident voltage interruptions)



Functions of Electric safety

- › Insulation with test voltage 50, 100, 250, 500, 1000VDC
- › Continuity of protective conductors with 200mA
- › Earth resistance by Voltamperometric method
- › Resistance of the earth rods with clamp
- › Ground resistivity by 4-wire method
- › Overall earth resistance with no residual current protection tripping
- › Line/Loop, Phase-Phase, Phase-Neutral, Phase-PE impedance
- › Line/Loop, Phase-Phase, Phase-Neutral, Phase-PE impedance with high resolution (0.1 mΩ) with optional accessory IMP57
- › Assumed short-circuit current
- › Contact voltage
- › Tripping time of Standard, Selective and Delayed RCDs
- › Test current type A/F, AC max 1A and type B/B+ max 300mA.
- Test on RCDs with separate clamp jaws up to 10A
- › RCD tripping current (Ramp test)
- › Phase sequence
- › Measurement of percentage voltage drop on the lines
- › Test with remote switch probe PR400
- › Leakage current (with optional clamp HT96U)
- › Help on line on the display
- › Internal memory for measured data saving
- › Optical/USB serial port for PC connection
- › Built-in WiFi communication interface

Functions of Mains analysis

- › 9 types of electric systems available
- › TRMS voltage in single-/three-phase systems up to 600V
- › AC TRMS current in single-/three-phase systems up to 3000A
- › Active, Reactive and Apparent Power/Energy
- › Cosphi and Power Factor
- › Voltage, Current, DC Power
- › Measurement of neutral current
- › Voltage dips and peaks on 20ms @50hz
- › Voltage unbalance (NEG%, ZERO%)
- › Measurements using external TA and TV
- › Voltage/current waveforms
- › Histograms of voltage/current harmonics and THD%
- › Voltage/current vector diagram
- › Periodical recording with selectable PI
- › Max number of simultaneously selectable quantities 632
- › Voltage/current harmonic analysis up to the 49th
- › Calculation and recording of voltage/current THD%
- › Indication of recording duration

Provided accessories

HTFLEX33E	Flex clamp 3000A, diameter 174mm, 4 pieces
C2033X	Cable with 3-terminal Shuko plug
UNIVERSALKITG3	Set of 4 cables, 4 alligator clips, 3 leads
KITTERRNE	Bag with 4 cables + 4 metal probes
PR400	Remote lead for test activation
PT400	Touch-screen pen
VA500	Rigid transport case for device and accessories
YABAT0003000	1.2V NiMH AA rechargeable battery, 6 pieces
A0060	100/230Vac 50/60Hz - 15 Vdc power supply
SP-0500	Set for slinging the instrument over one's shoulder
C2006	Optical/USB C2006 cable
RCDX10	Accessory for industrial RCDs up to 10A
	Quick user guide
	ISO calibration report

Optional accessories



SCAN THE QR CODE TO DISCOVER ALL OPTIONAL ACCESSORIES



ORDER CODE **HV005036**

MACROTESTG3

Advanced multifunction instrument for checking the safety of domestic and industrial electric systems (IEC/EN61557-1).



- › **All verifications on electric safety** provided for by **standards IEC/EN IEC/EN61557-1**.
- › **Advanced Loop** Verification of magnetothermal protections, fuses and cable sizes.
- › **Earth resistance** by **Voltamperometric method** with 2 or 3 spots in TT, TN and IT systems, measurement of **overall earth resistance** and with **clamp meter** T2100 (optional). **Ground resistivity**.
- › **Measurement of electric parameters in in single-phase installations** (V, A, W, VAR, VA, PF)
- › **Test of RCDs** type A/F, AC, B/B+ up to 1A and type DD, also with separate clamp jaws with test current up to 10A (with optional accessory RCDX10).
- › Measurement of **insulation resistance**.
- › Measurement in AUTOMATIC sequence of Overall earth resistance, RCD test, Insulation.
- › Measurement of **continuity** of protective conductors.
- › Verification of **phase sequence (SEQ)** and **leakage currents**.
- › **Measurement of environmental parameters** with external feelers.

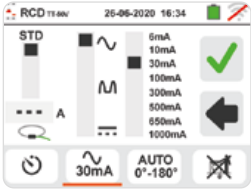


WATCH THE VIDEO TUTORIAL

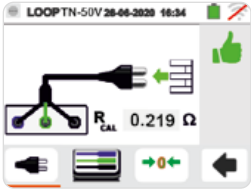


SEE PRODUCT DATA SHEET MACROTESTG3

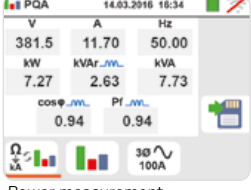
MacrotestG3 is a revolutionary device. Its TFT colour **touch-screen** display allows using this device in a completely new manner. **MacrotestG3 makes available on its display all possible variables to obtain a perfect measurement;** your task will only be to “**touch**” what you really want to measure: simply leave the rest to Macrotest G3’s micro-processor! The device complies with **all requirements as regards the safety of electric systems: test of RCDs type A, AC also up to 1000 mA and type B; insulation, continuity, earth resistance tests** (this also with the aid of optional clamp T2100). With the appropriate programming guided by the touch-screen system, this device can test the **interruption power, tripping currents, I2t relevant to magneto-thermal switches (MCB) with curves B, C, D, K and fuses type gG and aM!** The device can be used with external feelers for measuring environmental parameters such as air temperature/humidity, illuminance (Lux) further to measuring leakage currents, cosphi, power and harmonics, Loop/Line impedance and calculating the assumed short-circuit current with high resolution (0.1mOhm) in TN systems with use of optional accessory IMP57. **Cutting-edge management of measurement** with indication, at the end of each safety test, of **compliance or non-compliance with requirements** with simple symbols **OK** or **NOT OK**.



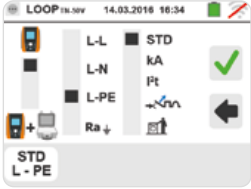
Selection of RCD type and tripping current.



Zero loop: compensation of the resistance of the test cables used for Loop impedance measurement.



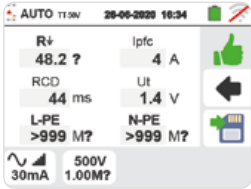
Power measurement.



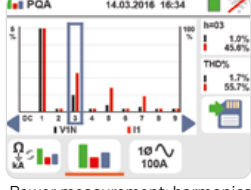
Advanced Loop.



Selection of test voltage and minimum limit value on MΩ measurement.



Autosequence: automatic sequence of measurements of Overall earth resistance, RCD test and Insulation L-PE, N-PE.



Power measurement: harmonics



Advanced Loop: negative result of interruption power test.

Functions

- › **AUTO test** (overall earth resistance test, RCD tests, insulation tests) on the outlets to be tested
- › **Insulation** with test voltage 50, 100, 250, 500, 1000VDC
- › **Continuity** of protective conductors with 200mA
- › **Earth resistance** by **Voltamperometric method**
- › **Resistance** of the earth rods with clamp
- › **Ground resistivity** by 4-wire method
- › **Overall earth resistance** with no residual current protection tripping
- › **Line/Loop, Phase-Phase, Phase-Neutral, Phase-PE impedance**
- › **Line/Loop impedance, Phase-Phase, Phase-Neutral, Phase-PE** with high resolution (0.1 mΩ)
- › **ZEROLOOP** function for a compensation of the resistance of the test cables used for Loop measurement.
- › **Assumed short-circuit current**
- › **Contact voltage**
- › **Tripping time** of General, Selective and Delayed RCDs
- › **Test current** type A/F, AC max 1A and type B/B+ max 300mA.
- › **Test on RCDs** with separate clamp jaws up to 10A
- › **RCD tripping current** (Ramp test)
- › **Measurement in AUTOMATIC** sequence of Overall earth resistance, RCD test, Insulation (AUTOTEST)
- › **Phase sequence**
- › **Measurement of percentage voltage drop** on the lines
- › **Measurement with use of remote switch probe** (with optional accessory PR400)
- › **Leakage current** (with optional clamp HT96U)
- › **Measurement of electric parameters** (V, I, W, VAR, VA, Wh, cosphi)
- › **Harmonic analysis** V, I and THD%
- › **Help on line** on the display
- › **Internal memory** for measured data saving
- › **Optical/USB serial port** for PC connection
- › **Built-in WiFi** communication interface

Characteristics

- Power supply:** 6x1.2V rechargeable batteries type AA NiMH or 6x1.5 type AA alkaline
- Battery life:** > 550 test (alkaline)
- Display:** Resistive touch screen, colour LCD, resolution 320x240 pxl
- Memory:** 999 locations, 3 levels of markers
- PC interface:** optical/USB and WiFi
- Safety:** IEC/EN61010-1, double insulation
- Operating humidity:** <80%RH
- Operating temperature:** 0 ÷ 40°C
- Storage humidity:** <80%RH
- Storage temperature:** -10 ÷ 60°C
- Overvoltage category:** CAT IV 300V, max 415V between inputs
- Pollution level:** 2
- Reference Standards** IEC/EN61557-1-2-3-4-5-6
- Size (LxWxH):** 225 x 165 x 75 mm
- Weight (batteries included):** 1.2kg

Provided accessories

C2033X	Cable with 3-terminal Shuko plug
UNIVERSALKITG3	Set of 4 cables, 4 alligator clips, 3 leads
KITTERRNE	Bag with 4 cables + 4 metal probes
PR400	Remote lead for test activation
PT400	Touch-screen pen
VA507	Rigid transport case
YABAT0003000	1.2V NiMH AA rechargeable battery, 6 pieces
YABAT0004001	Battery charger for 6 batteries type AA/AAA
C2006	Optical/USB cable
ZEROLOOP	Accessory for zeroing the cable in Loop measurement
	Quick user guide
	ISO calibration report

Optional accessories



SCAN THE QR CODE TO DISCOVER ALL OPTIONAL ACCESSORIES



ORDER CODE **HV000519**

COMBI519

ORDER CODE **HV000100**

EASYTEST

Multifunction instruments for safety verification of electric systems



SEE
PRODUCT
DATA SHEET
COMBI519



SEE
PRODUCT
DATA SHEET
EASYTEST

Three instruments resulting from the latest HT production and intended for **Electrical Safety Verification** in compliance with standard **IEC 60364**, made with **latest-generation** electronic components and therefore capable of guaranteeing these products a very long life. This also ensures the possibility of intervention by HT technicians to make changes and take measures in the future, aimed at constantly improving the quality of measurements and checks.

All tests for the verification of electric systems in compliance with IEC 60364 and so **Overall Earth Resistance measurements, tests on A/F, AC, DD and CCID RCDs (EASYTEST only A/F and AC RCDs - SUPERCOMBIs and COMBI519 also B and B+ RCDs)** up to a **rated current of 1A, Insulation up to 1000V, Continuity, short circuit currents, verification of test sequence and verification of magnetothermal protections and fuses.**

Common element to all HT instruments:

- › The **AUTO function**: by selecting this function and only setting the value of RCD current, the instruments connected to a power outlet carry out tests of overall earth resistance, tests on RCDs and insulation tests.
- › Results with the indication of compliance or non-compliance with the standards with simple symbols **OK** or **NOT OK**.

Great versatility and a wide range of uses for the flagship instrument of this series, the **COMBI521**, capable of carrying out a guided sequence of **verification tests on an EVSE station**, thanks to the **optional EV-TEST100 adapter**, and connecting to the **App HT Analysis 2** via the **in-built WiFi connection**, to perform measurements of **electrical parameters** in **single-phase installations** (V, A, W, VAR, VA, PF) and **measurements of environmental parameters** via external probes (HT52/05 and HT53L/05).



Functions

	COMBI519	EASYTEST
Insulation resistance	● 50, 100, 250, 500, 1000 VDC	● 50, 100, 250, 500, 1000 VDC
Measurement of Polarization Index (PI) and Dielectric Absorption Ratio (DAR)	●	●
Continuity of protective conductors with 200mA	●	●
Continuity of protective conductors with 10A	● ***	● ***
Tripping time and current of RCDs in auto/ramp/manual mode	A/F, AC, B/B+, DD, Standard, Selective CCIDs	A/F, AC, DD, Standard, Selective CCIDs
Rated current RCDs (mA)	6, 10, 30, 100, 300, 500, 650, 1000	6, 10, 30, 100, 300, 500, 650, 1000
Measurement of line impedance and assumed short-circuit current	●	●
Verification of magnetothermal protections and fuses	●	●
Measurement of overall earth resistance through the socket-outlet	●	●
Voltage drop	●	●
Phase sequence	●	●
Automatic tests in a sequence	● (Ra, RCD, MOhm)	● (Ra, RCD, MOhm)
Polarity tests	●	●
Multimeter function	●	●
Measurement of environmental parameters through optional feelers		
Automatic sequence of tests on EVSE stations		
Leakage currents		
Real-time measurement of electrical mains parameters in single-phase systems		
Backlit display	●	●
Memory	● (999 saved)	● (999 saved)
PC connection	● (optical/USB)	● (optical/USB)
WiFi connection		

* with optional clamp HT96U ** with optional accessory EV-TEST100 *** with optional accessory EQUITEST



Common characteristics

Power supply:	6x1.5V alkaline batteries type AA IEC LR06 or 6 x1.2V rechargeable NiMH batteries type AA
Battery life:	> 500 test (alkaline)
Display:	COG black/white graphic LCD, 320x240pxl
Memory:	999 locations, 3 levels of markers
PC interface:	optical/USB and WiFi
Safety:	IEC/EN61010-1, IEC/EN61010-2-030, IEC/EN61010-2-033 IEC/EN61010-2-034, IEC/EN61557-1, double insulation
Operating humidity:	<80%RH
Operating temperature:	0°C ÷ 40°C
Storage humidity:	<80%RH
Storage temperature:	-10°C ÷ 60°C
Overvoltage category:	CAT IV 300V, max 415V between inputs
Pollution level:	2
Standard standards:	IEC/EN61557-1-2-3-4-5-6 IEC/EN61010-1
Size (LxWxH):	225 x 165 x 75 mm
Weight (batteries included):	1.2kg



Provided accessories

UNIVERSALKITCOMBI	Set of 3 cables + 3 alligator clips + 3 leads
C2033X	3-terminal cable with Schuko plug
BORSA75	Soft carrying bag
C2006	Cable for PC connection
SP-O500	Shoulder strap kit with pre-perforated sheaths
	ISO calibration report
	Quick user guide



Optional accessories



SCAN THE QR CODE
TO DISCOVER ALL
OPTIONAL ACCESSORIES



ORDER CODE **HV000003**

FULLTEST3

Multifunction device for safety tests on electric boards and machines in compliance with IEC/EN60204-1 and IEC/EN61439-1



- › **Verification of dielectric strength** with test voltage up to 5100V in compliance with the prescriptions of new standard IEC/EN61439-1
- › **Verification of protection against indirect contact** in compliance with standard IEC/EN60204-1
- › **Continuity of protective conductors** (test current 200mA ÷ 25A)
- › **Verification of RCD tripping** (RCD AC, A/F, B/B+) up to 1A
- › **Measurement of Overall Earth Resistance**
- › **Verification of coordination of magnetothermal protections** (MCB curves B, C, D, K) and fuses (gG, aM)
- › **Insulation resistance** with test voltage up to 1000V
- › **Verification of residual voltage** on capacitive elements
- › **Measurement of leakage current** in the outlet and through clamp (HT96U, optional)
- › **Functional test** through outlet (power, current)
- › **Phase sequence**
- › **Tests in an automatic sequence:** possibility to program a sequence of tests with automatic start up to a maximum of 8.



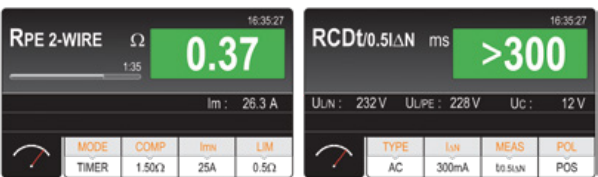
WATCH THE VIDEO TUTORIAL FULLTEST3



SEE PRODUCT DATA SHEET FULLTEST3

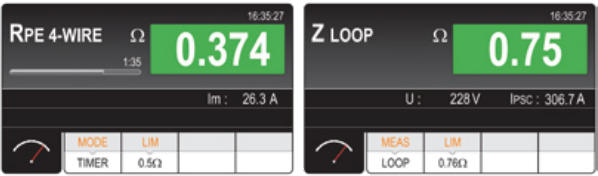
HT offers a cutting-edge device to carry out all measurements required by the new laws as regards tests to be performed on electric boards and machines **IEC/EN60204-1** and **IEC/EN61439-1**.

Further to measurements of **protective conductors' continuity, insulation and dielectric strength**, FULLTEST3 is capable of carrying out **tests on RCDs type A, AC and B, Standard, Selective and Delayed, measurements of Line/Loop impedance** also with high resolution **0.1mΩ** (with optional accessory IMP57), **measurement of overall earth resistance with no RCD tripping and leakage current with clamp transducer**. It can also carry out test on **interruption power, protection tripping, I2t tests relevant to magneto-thermal switches in curve B, C, D, K and fuses type gG and aM**. The instrument is also provided with a **"touch-screen"** colour display and **3 USB ports** for **connection to PC, USB pen drive, USB printers** and possible **bar code readers**.



2-wire continuity test.

Test on RCDs.



4-wire continuity test.

Measurement of Loop impedance.



Measurement of insulation resistance.

Measurement of overall earth resistance.



Dielectric strength test.

Residual voltage measurement.

Functions

- › **Continuity of protective circuit with 200mA**
- › **Continuity of protective circuit with I>10A, V<12V**
- › **Continuity of protective circuit with I>25A, V<12V**
- › **Insulation with test voltages 100, 250, 500, 1000VDC**
- › **Dielectric strength with voltage programmable from 250V to 5100VAC**
- › **Discharge time/residual voltage on plugs and internal circuits**
- › **Absorbed/leaked current and power at plug of machines**
- › **Tripping time and current of RCDs type A/F, AC, B/B+ Standard and Selective up to 1000mA**
- › **Contact voltage**
- › **Line/Loop impedance and Ipsc calculation**
- › **Line/Loop impedance with high resolution (with optional accessory IMP57)**
- › **Overall earth resistance without RCD tripping**
- › **Leakage current (with optional accessory HT96U)**
- › **Phase sequence**
- › **Timer and limit thresholds selectable through programmable ramps**

Characteristics

- Power supply:** 207V ÷ 253V / 50-60Hz
- Protection:** with fuses, at input
- Display:** LCD colour "touch-screen" display
- Memory:** internal, 999 locations
- PC interface:** USB (PC, pen drive, printers, etc.) and Bluetooth™
- Mechanical protection:** IP40
- Pollution level:** 2
- Safety:** IEC/EN61010-1 EN50191
- Considered standards:** IEC/EN61557-1-2-3-4-13-14 IEC/EN60204-1 IEC/EN61439-1 IEC/EN60335-1 EN50106
- Overvoltage category:** CAT III 300V (safety test) CAT III 300V (functional test)
- Size (LxWxH):** 400x300x170mm
- Weight:** 15kg

Provided accessories

	Integrated power supply cable
2317-IECIV-200-R	Test cable 2.5mm², 2m, red, 2 pieces
2310-IECIV-200-B	Test cable 0.75mm², 2m, blue
2310-IECIV-200-V	Test cable 0.75mm², 2m, green
2310-IECIV-200-N	Test cable 0.75mm², 2m, black, 2 pieces
C2033X	Cable with 3-terminal Shuko plug
FT3HVPB1	1 cable banana-alligator + 1 cable banana-lead 2mt HV
404-IECN	Measuring lead CAT III, 3 pieces
5004-IECN	Alligator clip, 4 pieces
C2007	USB cable
FT3BRSN	Carrying bag for accessories.
	ISO calibration report
	Quick user guide

Optional accessories



SCAN THE QR CODE TO DISCOVER ALL OPTIONAL ACCESSORIES



SAFETY TESTS



FUNCTIONAL TESTS

ORDER CODE HV000075

M75

ORDER CODE HV00075L

M75L

Safety verification instruments in compliance with standard IEC/EN IEC/EN 61010-1 with TRMS multimeter and LAN RJ-45 network cable mapping (M75 only).



SEE PRODUCT DATA SHEET M75



SEE PRODUCT DATA SHEET M75L

M75 is the mobile device par excellence! HT suggests operators who mainly work on domestic installations to **ALWAYS** have M75 at hand. Here's the reason why: it is very easy to use, very small in size and it **fully automatically** carries out all necessary tests to establish COMPLIANCE (and hence ensure SAFETY) of a domestic electric system. **ALWAYS using it before starting** working on an already existing system the operator does not know well, and **ALWAYS using it at the end of the job**, will guarantee the necessary safety to both operators and users of the electric systems! Thanks to its **small size**, this instrument offers many operating opportunities. M75 is used for testing the safety of electric systems, so for **measuring overall earth resistance, testing RCDs type A and AC, insulation and continuity**. In order to make it versatile and fully functional for any kind of end user, the instrument has been provided with the innovative **AUTO** function: by selecting this function and only setting the value of RCD current, M75, connected to a power outlet, carries out **tests of overall earth resistance, RCD tests and insulation tests in a sequence**. At the end of the tests, the instrument shows all results with the indication of compliance or non-compliance with the standards with simple symbols **OK** or **NOT OK**. This innovative product also offers the following functions: **TRMS multimeter** for **AC/DC voltage, AC/DC current** (with external clamp), **Resistance measurement, Test on LAN network cables, Test of phase sequence with a single lead**.

Functions

- › Continuity of protective conductors with 200mA
- › Insulation with 250,500VDC
- › Tripping time on Standard RCDs type AC (up to 300mA) and type to (300mA)
- › Tripping current on Standard RCDs type AC and A (30mA)
- › Overall earth resistance with no residual current protection tripping
- › AUTO function (overall earth resistance test, RCD tests, insulation tests) on the outlet to be tested
- › Phase sequence with 1 and 2 terminals
- › Full test on cable mapping of LAN networks with RJ45 (M75 only)
- › DC/AC TRMS voltage
- › DC/AC TRMS current
- › Resistance and Continuity test
- › Data HOLD, MAX/MIN/AVG
- › Measurement of voltage and current PEAK
- › Measurement of leakage currents (with optional clamp HT96U)
- › Safety: IEC/EN61010-1
- › Overvoltage category: CATIII 550V
- › Power supply: batteries type AA 4x1.5V
- › Size (LxWxH): 240x100x45 mm
- › Weight (batteries included): approx. 450g

Provided accessories

KIT0075	Set of 2 cables with leads + 2 alligator clips
C2075	2-terminal cable with Schuko plug
HT4003	Standard 400A/1V clamp
CH1	Remote unit LAN#1 (M75 only)
CH2	Remote unit LAN #2 (M75 only)
YAAMS0000000	(3x) patch cable LAN RJ45 (M75 only)
BORSA75	Carrying bag
	Quick user guide

Optional accessories



SCAN THE QR CODE TO DISCOVER ALL OPTIONAL ACCESSORIES



ORDER CODE HN005205

HT52/05

Feeler for measuring air temperature/humidity



Accessory HT52/05 accessory is a probe transducer that allows the measurement of air temperature and humidity in combination with analyzers/recording instruments or precision multimeters capable of accepting input signals with a minimum resolution of 1mV. The probe has a selector for selecting temperature measurements in °C/°F and relative humidity. The measurement is carried out and transformed into an electric signal proportional to the physical value measured. Model HT52/05 is supplied with a dedicated HT type output connector that can be used with measuring instruments such as GSC60 or COMBI521 or MACROTESTG3.



SEE PRODUCT DATA SHEET HT52/05

Characteristics

- AIR TEMPERATURE**
- › Measuring range: -20°C÷60°C, 4°F÷140°F
 - › Accuracy: ±0.7°C, ±1.4°F
 - › Type of sensor: capacitive
- RELATIVE HUMIDITY**
- › Measuring range: 0%÷100%RH
 - › Accuracy: ±3%reading at 25°C
 - › Type of sensor: capacitive

ORDER CODE HN053L05

HT53L/05

Probe for measuring illuminance (Lux) of white sources and LEDs



Accessory HT53L/05 is a probe transducer that allows the measurement of the illuminance of standard white and colour sources (LEDs) up to 20.000 Lux, in combination with analyzers/recording instruments or precision multimeters capable of accepting input signals with a minimum resolution of 1mV. The probe has a practical selector for turning it on and selecting the various ranges. Measurement is carried out and transformed into an electric signal proportional to the physical value measured. Model HT53L/05 is supplied with a dedicated HT type output connector that can be used with measuring instruments such as GSC60 or COMBI521 or MACROTESTG3.



SEE PRODUCT DATA SHEET HT53L/05

Characteristics

- › Sensor type: silicon photodiode
- › Ranges: 20Lux / 2kLux / 20kLux
- › Resolution: 0.01Lux (20Lux), 1Lux (2kLux, 20kLux)
- › Response time: <100ms
- › Output signal: 1mVDC/0.01Lux (20Lux), 1mVDC/1Lux (20Lux), 1mVDC/10Lux (20kLux)
- › Accuracy: ±(5%reading+5mV), Class AA referred to white source with colour temp. 2856K

ORDER CODE **HV000EQT**

EQUITEST

Accessory for measuring
Continuity up to 10A



EQUITEST is designed to carry out the continuity measurement of protection and equipotential conductors with **test current >10A AC** in combination with verification instruments (MASTER unit) EASYTEST, COMBI519, COMBI521, MACROTESTG3 and GSC60 of the HT family. This accessory uses the **measuring method with 4 terminals** which allows the self-compensation of the resistance of the test cables and therefore their extension without the need to perform any preliminary calibration.

Characteristics

Type of measurement:	Continuity of protective and equipotential conductors
Measurement resolution:	0.001Ω
Test current:	>10A AC (max resistance of measuring cables 0.7Ω)
Open-circuit voltage:	4< Vo < 24V AC
Measuring time:	4 terminals
Overtemperature:	after at least 20 consecutive tests
Safety Standards:	in compliance with standards IEC/EN61439-1, IEC/EN60204-1, IEC/EN62305-3
Overvoltage category:	CAT III 300V to earth and between inputs
Power supply:	mains 230V/240V ±10%, 50/60Hz or 110V ±10%, 50/60Hz
Power consumption:	max 70W (@230V, 300mA) (@110V, 600mA)
Protection fuse:	Time-Leg 250V/1A (5x20mm)
Indications of internal states:	two-colour LED
Size: (L x W x H):	210 x 115 x 60 mm
Weight (with in-built cable):	1Kg

Provided accessories

C7051	Power supply cable 230V with plug Schuko-Europlug
C7000	Pair of measuring cables, 3m with in-built alligator clips
C2050	Connection cable to HT master instruments
	ISO calibration report
BORSA75	Carrying bag
	User Manual

Optional accessories

1066-IECN	connector for extension cables with 4mm banana connector, black
1066-IECR	connector for extension cables with 4mm 4mm banana connector, red
C7000/05	pair of measuring cables, 5m with in-built alligator clips
C7000/10	pair of measuring cables, 10m with in-built alligator clips
KITKELVIN	pair of 2 cables with 4 banana connectors and in-built leads

ORDER CODE **HAIMP001**

IMP57

Accessory for measuring Loop impedance with
high resolution and assumed short-circuit
current up to 400kA



IMP57 is an optional accessory to measure **Loop/Line fault loop impedance** and **calculating the assumed short-circuit current**. IMP57 can be used together with the devices of series **GSC, SIRIUS, Combi** and **Macrotest Gx** further to **ZG47, Fulltest3** and **Speed418**. The high generated test current (**approx. 200A**) allows carrying out measurements with **high resolution (0.1mΩ)** and, therefore, obtaining correct and precise results, **even near MT/BT transformer cabinets (TN systems)** and, in general, carrying out measurements in which the devices' basic resolution is not sufficient to guarantee correct measurements of assumed short-circuit currents according to the project's theoretical data. L'IMP57 is provided with a comfortable and resistant case structure, it has no display and can be interfaced through serial RS232 to Master devices in order to read the results. 4-terminal measurement allows not considering the effect of the provided cables' resistance and, hence, **no preliminary calibrations are necessary**.

Characteristics

Type of measurement:	Loop impedance P-N, P-P, P-PE and calculation of short-circuit current
Measurement resolution:	0.1mΩ (Zloop); 400kA (Ipsc)
Test current:	approx. 200A
Frequency range:	50Hz ± 5%
Size (LxWxH):	340x300x150mm
Weight:	4.1kg

Compatible instruments:

MACROTESTG3
MACROEVTEST
COMBIG2
GSC60
COMBI519
COMBI521
FULLTEST3

Provided accessories

C7000	Couple of cables, 3m, with alligator clips
C2001	Serial optical / RS-232 cable
B80	Carrying bag for accessories
	ISO9000 calibration certificate
	User manual on CD-ROM
	CD-ROM with Firmware update

Optional accessories



SCAN THE QR CODE
TO DISCOVER ALL
OPTIONAL ACCESSORIES