



RCD AND LOOP VERIFICATION DEVICES

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NEW



JUPITER



SPEED418



M73

MAIN MEASUREMENTS

TRMS

	LOOP/RCD		
Measuring range of verifiable RCD rated currents	30,100,300mA	10,30,100,300,500,650,1000mA	30,30x5,100,300mA
Tripping time of type A, AC General and Selective RCDs	Only general	Up to 1A	A = 30mA AC = 300mA Only general
Ramp test for tripping current of RCDs type A, AC Standard	Only 30mA only Standard	Up to 650mA	A = 30mA AC = 30mA Only general
Overall earth resistance with no residual current protection tripping	•	•	•
Loop/Line impedance, Phase-Phase, Phase-Neutral, Phase-PE	•	•	-
Loop/Line impedance Phase-Phase Phase-Neutral, Phase-PE with high resolution (0.1mΩ)	-	•*	-
Contact voltage	•	•	•
Leakage current with optional clamp	•	-	•

ADDITIONAL FUNCTIONS

DC/AC TRMS voltage and current	• AC+DC, LoZ function	-	•
Phase sequence	•	•	•
Frequency	•	-	•
Resistance	•	-	•
Continuity with buzzer	•	-	•
Data HOLD, MAX/MIN/AVG	• MAX/MIN	-	•
Measurement of voltage and current PEAK	•	-	•
Measurement of Voltage/Current harmonics + THD%	•	-	-

ADDITIONAL CHARACTERISTICS

Measurement category	CAT IV 600V CAT III 690V	CAT III 265V	CAT III 550V
AUTOMATIC Test	-	•	-
Test with remote lead	-	•	-
Help on line on the display	-	•	-
Internal memory	-	•	-
Optical/USB serial port for PC connection	-	•	-
Size (LxWxH) (mm)	175x85x55	222x162x57	240x100x45
Weight (batteries included)	420g	1kg	450g
Reference standard for safety	IEC/EN61010-1	IEC/EN61010-1	IEC/EN61010-1
Order code	HR00JUPI	HV000418	HV000073

* With optional accessory IMP57.

RCD AND LOOP VERIFICATION DEVICES



ORDER CODE **HR00JUPI**

JUPITER

PROFESSIONAL DEVICE FOR ELECTRIC SAFETY TESTS ACCORDING TO IEC/EN61557-1 AND ADVANCED MULTIMETER FUNCTIONS

The new model JUPITER is an innovative device which, further to being used as **powerful multimeter** for TRMS measurements, allows performing **electric safety tests (RCD, Ra, Loop)** according to **standard IEC/EN61557-1**.

The device complies to CAT IV at 600V, with **autorange** function available on all models and possibility of backlit display. The design is extremely modern, attractive and ergonomic to offer the best possible ease of use.



Functions and characteristics

Multimeter section

- DC / AC, AC+DC TRMS voltage
- DC / AC / AC+DC TRMS voltage with low impedance (LoZ)
- DC / AC / AC+DC TRMS current with with standard clamp transducer
- AC TRMS current up to 3000A with flexible clamp transducer F3000U
- Automatic recognition of AC and DC quantities
- Resistance and continuity test with buzzer
- Current and voltage frequency
- MAX/MIN/PEAK/HOLD functions
- 9999 measuring spots
- Auto-Power-Off function
- Bargraph function

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

Section Mains analysis

- Inrush current (Dynamic INRUSH - DIRC)
- Current/voltage harmonics up to the 25th and THD% calculation

Included accessories

C2065	Three-wire cable Red, Black, Green with Schuko plug
4324-2	Pair of test tips Red/Black 2/4mm straight banana
YABAT0001HTO	Alkaline battery 1.5V, type AAA, IEC LR03, 4 pcs
YABRS0002HTO	Carrying bag
YAMUM0066HTO	User manual on CD-ROM
YAMUM0065HTO	Quick reference guide
	Calibration certificate ISO9000

Optional accessories

C2009	RS232-USB adapter
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

Standard accessories can be different depending on the country.
* Adapter NOCANBA required.





ORDER CODE HV000418

SPEED418

MULTIFUNCTION DEVICE
FOR NON-TRIP EARTH RESISTANCE
MEASUREMENT AND RCD TESTS



SPEED418 has been specifically developed to measure **Non-trip earth resistance** directly at the outlets to be measured and for **operating tests of RCDs type A, AC General and Selective** with tests both in manual and **automatic** mode in domestic electric installations. Extremely simple to use, with setting of parameters via scroll-through menu. It has no mechanical commutators and it is therefore more solid in structure. The device is provided with an **internal memory** for saving measurements and with an optical/USB interface for transferring measured data onto the PC. At the end of the test, the device shows all results with the indication of compliance or non-compliance with the standards with **simple symbols OK or NOT OK.**



ORDER CODE HV000073

M73

MULTIFUNCTION DEVICE
FOR NON-TRIP EARTH RESISTANCE
MEASUREMENT AND RCD TESTS



M73 has been developed for operators who mainly work on domestic installations. **M73 is very easy to use, it is** very small in size and it carries out all necessary tests to establish COMPLIANCE (and hence ensure SAFETY) of a domestic electric system. By always using it before starting working on an already existing system (which the operator therefore does not know well) and at the end of the job, this device will guarantee the necessary safety to both operators and users of the electric systems! Thanks to its small size, this device offers many operating opportunities. M73 is also used to test the safety of electric system; it is therefore capable of measuring **Non-trip earth resistance**, carrying out **tests on RCDs type A and AC** and **measuring Insulation and Continuity**. At the end of the test, the device shows all results with the indication of compliance or non-compliance with the standards with **simple symbols OK or NOT OK.**

Functions and characteristics

- Tripping time of type A, AC General and Selective RCDs with test currents 10,30,100,300,500,650,1000mA
- Tripping current of type A, AC General RCDs 10,30,100,300,500,650mA
- Non-trip earth resistance
- Line/Loop impedance also with high resolution (0.1 mΩ) with optional accessory IMP57
- Prospective short-circuit current
- Phase sequence
- Activation of measurements with (optional remote lead PR400)
- Context help on the display
- Storage of results
- Optical/USB interface for PC connection
- **Safety: IEC/EN61010-1**
- **Measurement category: CAT III 265V**
- **Power supply with batteries type AA: 6x1.5V**
- **Size (LxWxH): 222x162x57mm**
- **Weight (batteries included): 1kg**

Included accessories

C2033X	3-wire cable with Shuko plug
BORSA75	Soft carrying bag
	ISO9000 calibration certificate
	User manual on CD-ROM and Quick guide for use

Optional accessories

TOPVIEW2006	Windows software for PC + optical/USB cable
UNIVERSALKITCOMBI	Set of 3 cables + 3 alligator clips + 3 leads
IMP57	Accessory for measuring Loop impedance with high resolution
PR400	Remote lead for test activation
SP-0400	Set of straps for slinging the instrument over one's shoulder
VA500	Rigid transport case for device and accessories

Functions and characteristics

- Tripping time of type A, AC General RCDs with currents 30,30x5,100,300mA
- Tripping current of type A, AC General RCDs with 30mA test current
- Non-trip earth resistance
- Prospective short-circuit current
- Phase sequence
- 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**
- **Measurement category: CAT III 550V**
- **Power supply with batteries type AA: 4x1.5V**
- **Size (LxWxH): 240x100x45mm**
- **Weight (batteries included): 450g**

Included accessories

KIT0075	Set of 2 cables with leads + 2 alligator clips
C2075	2-wire cable with Shuko plug
BORSA2000	Soft carrying bag
	ISO9000 calibration certificate
	User manual on CD-ROM
	Quick user guide

Optional accessories

HT96U	Standard 1-100-1000A/1V clamp, diameter 54mm
HT4003	Standard 400A AC clamp
HT4004N	Standard 10-100A DC/1V clamp
HT4005N	Standard 5-100A AC/1V clamp
NOCANBA	Adapter for connect. HT96U, HT4004N, HT4005N