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LOOPTest (Medidor de bucle de tierra) LOOPTEST HT2014

Instrumento diseñado para las medidas de resistencia de tierra de bucle, corriente de cortocircuito y sentido cíclico de las fases.

Descripción

Permite verificar del sistema TT la presunta de cortocircuito y la medida de resistencia de bucle de tierra a ½ $I_{\Delta N}$ y 4/8A a 220/380V directamente en una toma de corriente sin la intervención de los interruptores diferenciales. (Rango: 0,01 a 1999Ω) Categoría III 600V.

- Medida de la resistencia de bucle de tierra en las tomas de corriente con o sin provocar salto de los interruptores diferenciales.
- Medida del cálculo de la intensidad de cortocircuito en tomas de corriente.
- Medida del sentido cíclico de las fases (R.S.T.)
- 350 posiciones de memoria.
- Salida serie RS232 para PC o Impresora.
- Certificado de calibración.
- Construido bajo normas EN 61010 y EN 61557.
- Autoapagado.

LOOPTEST2014

Metel: HV002014

FREQUENCY MESUREMENT

Range (Hz)	Resol. (Hz)	Accuracy
15.3 ÷ 99.9	0.1	±(0.1%Reading+1 digit)

VOLTAGE MEASUREMENT

Electrical System	Range (V)	Resol (V)	Accuracy
Single phase	0 ÷ 250	1	± (2%Reading + 2 digit)
Two or Three phase system	0 ÷ 440		± (5%Reading + 2 digit)

LINE IMPEDANCE MEASUREMENT (phase-phase, phase-neutral)

Range (Ω)	Resolution (Ω)	Accuracy
0.01 ÷ 19.99	0.01	±(5%Reading + 2 digit)
20.0 ÷ 199.9	0.1	

Max peak test current	100V (test voltage)	3.17A	test duration: 80ms
	230V (test voltage)	6.64A	test duration: 40ms
	400V (test voltage)	11.5A	test duration: 40ms
Accuracy current measurement	±10% $I_{max\ Pk}$		
Test frequency	50, 60Hz		

FAULT LOOP IMPEDANCE MEASUREMENT (phase-earth)

Range (Ω)	Resolution (Ω)	Accuracy
0.01 ÷ 19.99	0.01	±(5%Reading + 2 digit)
20.0 ÷ 199.9	0.1	
200 ÷ 1999	1	

Max peak test current	100V (test voltage)	3.17A	test duration: 80ms
	230V (test voltage)	6.64A	test duration: 40ms
Accuracy current measurement	±10% $I_{max\ Pk}$		
Test frequency	50, 60Hz		

FAULT LOOP IMPEDANCE MEASUREMENT WITHOUT RCD TRIPPING (phase-earth $R_{a\ 15mA}$)

Range (Ω)	Resolution (Ω)	Accuracy
1 ÷ 1999	1	±(5%Reading + 2 digit)

Test current	15mA
Test frequency	50, 60Hz

MECHANICAL FEATURES

Dimensions	222(L)x162(La)x57(H)mm
Weight (batteries included)	approx. 1000g

POWER SUPPLY

Battery type	6 batteries 1.5-LR6-AA-AM3-MN 1500
Battery life	approx. 40 hours in stand-by or 1000 LOOP or PHASE SEQUENCE
Fusible	3.15A - 500V (*) 200mA - 250V (*)

(*) Not accessible to the operator

DISPLAY and MEMORY

Display	LCD custom 65mmx65mm
Memory	350 tests
Interface	optical RS232 to print or to dowload the tests

ENVIRONMENTAL WORKING CONDITIONS

Reference temperature	23° ± 5°C
Working temperature	-10°C ÷ 50°C
Relative humidity allowed	< 80%
Storage temperature	-20 ÷ 60°C
Storage humidity	< 70%

STANDARDS

- **ELECTRICAL STANDARDS**

EN61557-3	fault loop impedance

- **SAFETY STANDARDS**

The instrument complies with:	EN 61010-1 e EN 61557-1
Insulation	class 2, double insulation
Pollution level	2
Inside use, max height	2000m
Overvoltage category	CAT III
Max voltage P-PE (phase-earth)	250V
Max voltage P-P (phase-phase)	440V

- **EMC**

This instrument was designed in compliance with the EMC standards in force and its compatibility was tested relating to:

EN 55011	radiated emission
EN 50140, EN 61000	immunity
EN 61000-4-2	elettrostatic discharges
EN 50140	R.F. field
EN 61000-4-4	Fast transient

This instrument was designed in compliance with the 72/23/CEE, CEM 89/336/CEE, and the 93/68/CEE.

NOTE ABAUT ACCURACY

Accuracy is indicated as [% reading + digit number]. It refers to the following atmospheric conditions: temperature 23°C ± 5°C with a relative humidity of <75%.