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RCDTest (Medidor de diferenciales) RCDTEST HT2012

RCDTEST HT2012



Instrumento para comprobar y medir interruptores diferenciales, resistencia de tierra de bucle y sentido cíclico de las fases.

Descripción

Permite verificar el tiempo y la corriente de intervención de diferenciales de tipo A-AC y selectivos. Compara el tiempo de intervención según norma vigente. RCDTEST HT2012 efectúa las pruebas ya sea en modo manual o automático con valoración final de los resultados detectados. Puede medir de resistencia de bucle de tierra a $\frac{1}{2} I_{\Delta N}$ directamente en una toma de corriente sin la intervención de los interruptores diferenciales. (Rango: 0,01 a 1999 Ω)

Categoría III 600V.

- Comprueba y verifica los diferenciales tipo A-AC y selectivos.
- Medida de la tensión de contacto.
- Medida de la resistencia de tierra de bucle a $\frac{1}{2} I_{\Delta N}$.
- Medida del sentido cíclico de las fases.
- 350 posiciones de memoria.
- Salida serie RS232 para PC o Impresora.
- Certificado de calibración.
- Construido bajo normas EN 61010 y EN 61557.
- Autoapagado.

RCDTEST2012

Metel: HV002012

- RCD TRIPPING TESTS**

Rated tripping current ($I_{\Delta N}$) 10mA, 30mA, 100mA, 300mA, 500mA
 Type of RCD AC, A General and Selective
 Range phase to earth voltage 100V ÷ 250V 50, 60 Hz

- MEASUREMENT OF TRIPPING TIME IN TEST OF GENERAL AND SELECTIVE RCD, TYPE AC AND A**

Tripping time $t_{\Delta N}$

Measuring Range (ms)	Resol (ms)	Accuracy
$\frac{1}{2} I_{\Delta N}$, $I_{\Delta N}$	0÷999	±(2% Reading + 2 dgt)
$2 I_{\Delta N}$	0÷200 general	
	0÷250 selective	
$5 I_{\Delta N}$ RCD	0÷50 general	±(2% Reading + 2 dgt)
	0÷160 selective	

Contact voltage U_t

Range (V)	Resolution (V)	Accuracy
0 ÷ $2U_{t\text{lim}}$	0.1	±(2% Reading + 2 dgt)

 $U_{t\text{LIM}} (U_L)$: 25V o 50V**Earth resistance R_E without RCD tripping**

Range (Ω)	Resolution (Ω)	Accuracy $I_{\Delta N}$
1 ÷ 1999	1	±(2% Reading + 2 dgt)

Test current 0.5 $I_{\Delta N}$ (during U_t test)
 15mA (during $R_{a\ 15mA}$)

- TRIPPING CURRENT FOR GENERAL RCD TYPE A AND AC**

General RCD with $I_{\Delta N} \leq 10\text{mA}$

Type RCD	Range $I_{\Delta N}$ (mA)	Resol. (mA)	Accuracy $I_{\Delta N}$
AC	(0.5 ÷ 1.4) $I_{\Delta N}$	0.1 $I_{\Delta N}$	±5% $I_{\Delta N}$
A	(0.5 ÷ 2.4) $I_{\Delta N}$	0.1 $I_{\Delta N}$	±5% $I_{\Delta N}$

General RCD with $I_{\Delta N} > 10\text{mA}$

Type RCD	Range $I_{\Delta N}$ (mA)	Resol. (mA)	Accuracy $I_{\Delta N}$
AC	(0.5 ÷ 1.4) $I_{\Delta N}$	0.1 $I_{\Delta N}$	±5% $I_{\Delta N}$
A	(0.5 ÷ 2) $I_{\Delta N}$	0.1 $I_{\Delta N}$	±5% $I_{\Delta N}$

- 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)

- 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 RCD or PHASE SEQUENCE
 Fusable 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 download 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**

CEI 64-8 612.6.2
 CEI 64-8 612.6.3
 CEI 64-8 612.9 e app.D
 CEI EN 60947-2 point B 4.2.4.1. (CEI 17-5)

earth resistance
 fault loop impedance
 RCD tripping test

- **SAFETY STANDARDS**

The instrument complies with:
 Insulation EN 61010-1 e EN 61557
 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-earth) 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 electrostatic 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 ABOUT 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%.