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## Instrumento para la verificación de cuadros y máquinas eléctricas **FullTest HT4050**



**Modernísimo instrumento para efectuar las pruebas exigidas por la norma EN60204-1 para los equipos eléctricos de las máquinas y por la norma EN60439-1 para cuadros eléctricos.**

### Descripción

Capaz de poder responder plenamente a este tipo de normativa, el equipo ha sido construido para poder efectuar las pruebas según la norma europea EN60204-1, equipos a bordo máquinas, aparatos electromédicos, electrodomésticos y similares y la norma EN60439-1 para cuadros eléctricos.

El instrumento efectúa las siguientes pruebas:

- Resistencia de los conductores de protección: 6V/10-25A.
- Caída de tensión sobre los conductores de protección: 12V/>10A.
- Resistencia de aislamiento: 500V<sub>CC</sub>.
- Rigidez dieléctrica: 1000V<sub>ca</sub> (500VA).
- Rigidez dieléctrica de 0 hasta 4000V<sub>ca</sub>.
- Prueba de la tensión residual, interna y externa a la desconexión.
- Medida de la corriente de dispersión.

Al finalizar cada prueba el equipo puede valorar el resultado obtenido según la norma de referencia.

El FULLTEST HT4050 dispone de salida RS232 para poder transferir los datos a un PC o a una impresora.

# TECHNICAL SPECIFICATIONS FOR THE FOLLOWING PRODUCTS

HT4050

## Technical specifications

### 1. Test of applied voltage (withstanding voltage)

- Test voltage 0 ÷ 4000VAC 50 Hz
- Power 500VA
- Test current limiting device adjustable from 0.5 to 500 mA
- Test time selectable from 1 second to 10 minutes
- Possible of disruptive tests with a current higher than 200mA (BURN function)
- Digital display of set voltage and leakage current
- Applied voltage resolution 10V, accuracy  $\pm$  (5% reading + 3 digit)
- Leakage current resolution 0.1 mA  $\pm$  (5% reading + 2 digit)

### 2. Insulation measurement

- Test voltage 500V
- Possibility of setting the minimum allowable value
- Resistance resolution 10kW (0 – 100 MW)
- Accuracy  $\pm$  (2% reading + 3 digit)
- Test time selectable from 1 second to 10 minutes

### 3. Measurement of resistance and voltage drop on protective conductors

- Test voltage < 12VAC
- Test current > 10AAC
- Test duration 10s
- Possibility of setting the section of protective conductor (1, 1.5, 2.5, 4, > 6 mm<sup>2</sup>) for test of the allowable result
- Digital display of the measured resistance and relative voltage
- Resistance resolution 0.001W, accuracy  $\pm$  (2% reading + 3 digit)
- Measurement effected adopting the 4-wire method to permit compensation of cable resistance.

### 4. Measurement of residual voltage

- Measurement of time elapsing from the power supply drop and the decrease of terminal voltage below 60V.
- T max 9.9s resolution 0.1s
- Plug voltage mode: 1 voltage input
- Internal conductor voltage mode: line monitor input, voltage input.

### 5. Measurement of resistance of potential equalising conductors for household and office electrical appliances

- Test voltage < 12VAC
- Test current > 25AAC
- Test duration 10s
- Possibility of setting maximum value of resistance to check the allowable result (max 0.1W).
- Digital display of the measured resistance.
- Resistance resolution 0.001W, accuracy  $\pm$  (2% reading + 2 digit)
- Measurement effected adopting the 4-wire method to permit compensation of cable resistance.

### 6. Measurement of resistance of potential equalising conductors for electrical medical equipment and medical rooms

- Test voltage not higher than 6VAC
- Test current 10-25A
- Test duration 5s
- Possibility of setting maximum value of resistance to check the allowable result (max 0.1W).
- Digital display of the measured resistance.
- Resistance resolution 0.001W, accuracy  $\pm$  (2% reading + 3 digit)
- Measurement effected adopting the 4-wire method to permit compensation of cable resistance.

## General features

- Power supply 230V  $\pm$  10% 50Hz
- Display of measurement results and parameters on 3 large displays
- Inner clock
- Possibility of storing up to 700 measurements
- RS232 output for printing of results and transfer to PC
- Possibility of remote control of START, STOP and SAVE keys
- External contacts (READY to measure, MEASUREMENT UNDER WAY, NO GOOD result)
- Input (closed for test) to connect any safety screen
- Sound signal for result
- ON/OFF switch

Additional functions selectable through parameters:

DOUBLE ACTION safety function requiring two operations to activate measurement.  
MOMENTARY measurement is active only when START key is pressed  
IMMEDIATE PRINTING measurement just saved is also printed  
STOP DUE TO LOW CURRENT measurement is interrupted if current is lower than the specifications

- Manufactured according to EN 61010-1
- Dimensions and weight: 400x290x130 mm – Kg. 12