

HT2051- HT2052

STEP/CONTACT VOLTAGE METER

The two models HT2051 and HT2052 are, respectively, the power unit with microprocessor and the voltage unit necessary for carrying out Step and Contact voltage measurements, further to earth resistance measurements, in industrial electric systems typical of MT and BT (TN systems, transformation cabs). The two units combined, duly synchronized, can work AUTOMATICALLY, allowing measurements to be carried out also by one operator only. Therefore, while HT2051 supplies the necessary test current and the positive/negative phases (0, 1, 2,) cyclically, HT2052 recognizes this sequence and, with the correct fault current value set, carries out the Step/Current measurements and shows them

FUNCTIONS

HT2051: power unit

High protection grade with differential relay, inner temperature control system, power circuit continuity control system

Limit contact voltage control for operator's safety

Digital display of voltage and current

Manual and automatic (with HT2052) operating mode in the generation of sequences (0, 1, 2) of test current (max. 35A)

High output power

Synchronization with control unit HT2052

HT2052: voltage unit

Input impedance selection: 1M Ω , 1k Ω from keyboard

Setting of fault earth current/test current relationship

Setting of step/contact voltage threshold values

Manual and automatic (with unit HT2051) operating modes

Compensation of disturbance voltages on meas. (Erbacher method).

Voltage measurement

Earth resistance measurement

Clock function

In-built serial printer for totally/partially printing results

Storage of more than 350 measures

Connection to PC by means of in-built RS-232 port

Software in Windows environment for analyses from PC of stored results

on the display. These measurements may be directly printed or saved in the memory of HT2052 to be later transferred and analyzed by the PC.

TECHNICAL SPECIFICATIONS

HT2051: power unit

Power supply: max. 230V/16A ; 50 Hz

Output power: max. 3.5 kVA

Adjustment of TRMS output voltage in three ranges (400V, 200V, 100V)

Output correction: max. 35A (100V), max. 17.5A (200V), max. 8.75A (400V)

Voltage measurement: range 0÷400VCA

Resolution: 1V

Accuracy: $\pm(2\%$ reading + 2 digits)

Current measurement: 0 ÷ 19.9A AC

Resolution: 10mA

Accuracy: $\pm(2\%$ reading + 2 digits)

Current measurement: 20.0 ÷ 35.0A AC

Resolution: 100mA

Accuracy: $\pm(2\%$ reading + 2 digits)

Internal memory: approx. 1750 current measures

Display: LCD, 31/2 digits, height 21mm

Temperature range: 0÷60°C

Size (LxWxH): 670x280x400 mm

Weight: 57kg (without accessories)

Safety: IEC/EN61010-1

Overvoltage category: CAT II 400V

Insulation: class 1

HT2052: voltage unit

Voltage measurement: range 0÷400VCA

Resolution: 0.001 ÷1V

Accuracy: (1% reading + 2 digits)

Input impedance: 1M Ω /1k Ω , selectable (at 50Hz)

Operating modes: Manual/Automatic

RS-232 port: 2400, 4800, 9600 Baud

Display: LCD, alphanumeric

Memory: approx. 350 measures

Print: dot matrix, 24 characters per line

Power supply: 4x1.5V batteries IEC LR14

Battery autonomy: approx. 170 hours for meas., approx. 70 prints

Temperature range: 0 ÷ 60°C

Size (LxWxH): 160x75x235 mm

Weight: 1.6kg (with batteries)

Reference standards: IEC/EN61010-1

Overvoltage category: CAT II 400V

Insulation: class 1

ACCESSORIES

Standard

1 winding system with 4mm² cable, L=100m

3 metal probes, L=1m

1 cable 4mm², L=10m with alligator clips

1 cable 4mm², L= 3m with alligator clips

1 hammer, 1.5kg

Couple of test leads for HT2052

2 weight, 25kg

TOPVIEW Windows software + RS-232 serial cable

Carrying bag for accessories

ISO9000 calibration certificates

User manuals

HT2051
HN002051



HT2052
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