

FULLTEST4058N - FULLTEST4050

MULTIFUNCTION INSTRUMENTS FOR TESTS ON ELECTRIC MACHINES (IEC/EN60204-1: 2006) AND ELECTRIC PANELS (IEC/EN60439-1)

Models FULLTEST4058N and FULLTEST4050 have been designed to perform the necessary verifications in the industrial sector on electric machines and PTTA-type electric panels according to the relevant reference standards IEC/EN60204-1:2006 and IEC/EN60439-1. Thanks to its superior characteristics, FULLTEST4050 also allows carrying out tests with a higher flexibility of use, and therefore, to completely or partially comply with other standards of the sector. Each instrument is housed in a handy and solid suitcase made of rigid plastic, which adequately protects the instrument from shocks. FULLTEST4058N is provided with a wide custom display for comfortably reading the measurement results. suring range (50k Ω) and an efficient internal compensation of the disturbance effects present on systems. Model GEO416, differently from model M71, allows storing each measurement result in its own internal memory and to download the saved data with the aid of the dedicated software.

FUNCTIONS	HT4058N	HT4050
Continuity of protection circuit with I>10A, V<12VCA	•	•
Continuity of protection circuit with I>10A, V<6VCA		•
Insulation resistance with voltage 500V DC	•	•
Withstanding with test voltage 1000V, 2500VAC	•	•
Withstanding with programmable test voltage up to 4000VAC		•
Loop / Line Impedance with high resolution (with optional accessory IMP57)	•	•
Programmable timer and limit thresholds programmable according to measurements	•	•
Inner capacity and on plug discharge time	•	•
Leakage current on instrument plug		•
Operating test of current on plug		•
Red LED display on front panel		•
Wide custom LCD display	•	
Internal memory and RS-232 serial interface	•	•
Safety	EN61010-1	EN61010-1
Measurement category	CAT III 240V	CAT II 265V
Power supply	230V/50Hz	230V/50Hz
Size (LxWxH) mm	330x410x180	230x300x150
Weight	9.30kg	12.3kg



IMP57- Accessory for measuring Loop Impedance with high resolution

Withstanding test with 1000V AC

Test voltage:	>1000V AC 50Hz
Ouptut power:	>500VA
Leakage current threshold:	0.5 ÷ 500mA (HT4050)
Programmable timer:	1s ÷ 60min (HT4050) 3s ÷ 10min (HT4058N)
Accuracy:	±(5%rdg + 3dgt) (HT4050) ±(2%rdg + 2dgt) (HT4058N)

Withstanding test with test voltage >1000V AC

Test voltage:	>4000V AC 50Hz (HT4050) >2500V AC 50Hz (HT4058N)
Ouptut power:	>50VA
Leakage current threshold:	0.1 ÷ 10mA (HT4050) 0.5 ÷ 20mA (HT4058N)
Programmable timer:	1s ÷ 60min (HT4050) 3s ÷ 10min (HT4058N)
Accuracy:	±(5%rdg + 3dgt) (HT4050) ±(2%rdg + 2dgt) (HT4058N)

Insulation test with 500VDC

Test voltage:	>500VDC
Measurement range:	0.0 ÷ 99.9M Ω (HT4050) 0.0 ÷ 199.9M Ω (HT4058N)
Programmable timer:	1s ÷ 60min (HT4050) 10s ÷ 60min (HT4058N)
Accuracy:	±(5%rdg + 3dgt) (HT4050) ±(2%rdg + 2dgt) (HT4058N)

FULLTEST4058N
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Resistance of protection circuit with $I > 10A$, $V < 12VAC$

Test voltage / test current:	$< 12VAC / > 10A AC$
Resistance measurement range:	$0.000 \div 1.000M\Omega$ (HT4050) $0.0 \div 9.999M\Omega$ (HT4058N)
Accuracy:	$\pm(2\%rdg + 3dgt)$ (HT4050) $\pm(2\%rdg + 2dgt)$ (HT4058N)

Resistance of protection circuit with $I > 10A$, $V < 6VAC$ (only HT4050)

Test voltage / test current:	$< 12VAC / > 10A AC$
Resistance measurement range:	$0.000 \div 1.000\Omega$
Programmable timer:	$1s \div 15s$
Accuracy:	$\pm(2\%rdg + 3dgt)$

Continuity of protection circuit (in compliance with IEC/EN60204-1:2006)

Test voltage / test current:	$< 12VAC / > 10A AC$
Res. and Line/Loop impedance measurement range:	$0.000 \div 9.999\Omega$
PE conductor section:	$0.5 \div 16mm^2$
Nominal current protection device:	$6 \div 63A$
Type of protection device:	Curve B and C
Accuracy:	$\pm(2\%rdg + 2dgt)$

Inner capacity and on plug discharge time

Residual voltage limits:	60V, 120V
Discharge time limits:	1s, 5s
Accuracy:	$\pm(5\%rdg + 1dgt)$ (HT4050) $\pm(5\%rdg + 3dgt)$ (HT4058N)
Max. input voltage:	596V (HT4050) 565V (HT4058N)

GENERAL SPECIFICATIONS

Serial interface:	RS-232
Internal memory:	> 700 locations (HT4050) 999 locations (HT4058N)
Safety:	IEC/EN61010-1
EMC:	IEC/EN61326-1 +A1+A2+A3
Insulation:	Double insulation
Pollution degree :	2

ACCESSORIES

Code

Standard (HT4050)

4-wire connector for continuity test	C4050/04
Set of 4 cables+4 alligator clips+1 test leads	KITFULLTEST
Gun terminal for withstanding test	PISTOLA
Carrying bag for accessories	BORSA2000
Windows software + RS-232 serial cable	TOPVIEW
ISO9000 calibration certificate	
User manual	

Standard (HT4058N)

Power supply cord	C7001
Set of 4 cables+4 alligator clips+1 test leads	KITFULLTEST
Set of 2 cables + 2 fixed alligator clips, 3m	C7000
Set of 2 cables with test leads + 1 alligator clip	KIT13300WS
Windows software + RS-232 serial cable	TOPVIEW
ISO9000 calibration certificate	
User manual	

Optional

Accessory for line impedance with high resolution	IMP57
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