



1. ELECTRICAL SPECIFICATIONS

Accuracy is calculated as $\pm [\% \text{ readings} + (\text{number of dgt} * \text{resolution})]$ at reference conditions

Step/Contact voltage measurements (unit HT2055M)

Measure voltage range	Resolution	Accuracy
0.01 ÷ 19.99mV	0.01mV	$\pm(2.0\% \text{ rdg} + 2\text{dgt})$
20.0 ÷ 199.9mV	0.1mV	
200 ÷ 1999mV	1mV	
2.00 ÷ 19.99V	0.01V	
20.0 ÷ 59.9V	0.1V	

Calculated voltage range	Resolution	Accuracy
0.0 ÷ 199.9V	0.1V	Calculated value (*)
200 ÷ 999V	1V	
1.00kV ÷ 9.99kV	10V	

(*) The calculated value of step/contact voltage is obtained by the relationship: $U_s = U_{\text{meas}} \cdot I_{\text{ft}} / I_{\text{gen}}$; $U_c = U_{\text{meas}} \cdot I_{\text{ft}} / I_{\text{gen}}$.

Range of fault current (selectable): $1A \div 200kA$

Input resistance(selectable): $1k\Omega, 1M\Omega$

Noise reducing/erasing: DSP filtering 55Hz, 64dB rejection on noise at 50/60Hz

Earth resistance measurement (unit HT2055S)

Measurement range	Resolution	Accuracy
0.001Ω ÷ 1.999Ω	0.001Ω	$\pm(2.0\% \text{ rdg} + 5 \text{ dgt})$
2.00Ω ÷ 19.99Ω	0.01Ω	
20.0Ω ÷ 99.9Ω	0.1Ω	
100.0Ω ÷ 199.9Ω		$\pm(5.0\% \text{ rdg})$

Open voltage: $< 50V \text{ AC}$

Test current: $< 7.5A$

Frequency of test signal: 55Hz

Influence of probe resistance: $\leq \pm(10\% \text{ rdg} + 10 \text{ dgt})$

(R_c, R_p)max $(10\Omega + 100R) \text{ o } 2k\Omega$ considering the lower value

Automatic test on the probe resistance: Yes

Automatic detection of voltage noise

Generated current range	Resolution	Accuracy
0.00 ÷ 9.99A	0.01A	$\pm(3.0\% \text{ rdg} + 5 \text{ dgt})$
10.0 ÷ 99.9A	0.1A	$\pm(3.0\% \text{ rdg} + 3 \text{ dgt})$

Generated current: 55A max

Test voltage: $< 55V$

Test frequency: 55Hz

Soli resistivity measurement (unit HT2055S)

Measurement range	Resolution	Accuracy
0.00Ωm ÷ 9.99Ωm	0.01Ωm	Calculated value, consider accuracy of Resistance to earth function
10.0Ωm ÷ 99.9Ωm	0.1Ωm	
100Ωm ÷ 999Ωm	1Ωm	
1.00kΩm ÷ 9.99kΩm	0.01kΩm	
10.0kΩm ÷ 99.9kΩm	0.1kΩm	

Measurement principle: Wenner method $\rightarrow \rho = 2\pi * \text{distance} * R$



2. GENERAL SPECIFICATIONS

Power unit (HT2055S)

Power supply:	115V/230VAC ($\pm 10\%$), 50/60Hz
Max. power consumption:	750VA
Protection on power supply:	fuse T 5A / 250V (6mm x 30mm)
Safety condition on meter:	IEC/EN61010-1, IEC/EN61557-1
Safety condition on test leads:	IEC/EN61010-031
Installation over 1kVAC:	HD 637 S1
Step/Contact voltage measurement:	EN50522, IEC60936-1
Earth resistance measurements:	IEC/EN61557-5, IEC/EN60364
Spanish guideline:	RAT 2008
Insulation:	class I
Measurement category:	CAT II 300V, CAT IV 50V
Pollution degree:	3
Mechanical protection:	IP30
Display:	LCD dot matrix (128 x 64) with backlight
Internal memory:	1000 locations
Generated current:	values storage for min 24h
Communication interface:	RS-232 (with voltmetric unit)
Dimensions (L x W x H):	563 x 257 x 275mm
Weight (without accessories):	29.5kg

Voltmetric unit (HT2055M)

Power supply:	6x1.2V rechargeable batteries NiMH type AA LR03 6x1.5V alkaline batteries type AA LR03
Battery (chargeable) life:	12 hours (typical)
External power supply:	100-240V AC, 50-60Hz / 12V DC
Safety condition on meter:	IEC/EN61010-1
Safety condition on test leads:	IEC/EN61010-031
Insulation:	double insulation
Measurement category:	CAT IV 50V
Pollution degree:	2
Mechanical protection:	IP40
Display:	LCD dot matrix (128 x 64) with backlight after 15 minutes of idleness (not disable)
Auto Power OFF:	1500 locations
Internal memory:	RS-232 and USB (to PC)
Communication interface:	230 x 115 x 103mm
Dimensions (LxLaxH):	
Weight (with batteries):	1.3kg

ENVIRONMENTAL CONDITIONS:

Reference temperature:	10°C ÷ 30°C
Reference humidity:	35% ÷ 65%RH
Working temperature:	0°C ÷ 40°C
Working humidity:	<80%RH
Storage temperature:	-10°C ÷ 60°C
Storage humidity:	<80%RH

This instrument satisfies the requirements of Low Voltage Directive 2014/35/EU (LVD) and of EMC Directive 2014/30/EU

This instrument satisfies the requirements of 2011/65/EU (RoHS) directive and 2012/19/EU (WEEE) directive