Step/Contact measurement power unit

Pag 1 of 2

1. ELECTRICAL SPECIFICATIONS

Accuracy is given as \pm [% readings + (number of dgt * resolution)] at reference conditions

Step/Contact voltage measurements			
Measure voltage range	Resolution	Accuracy	
0.01 ÷ 19.99mV	0.01mV		
20.0 ÷ 199.9mV	0.1mV		
200 ÷ 1999mV	1mV	\pm (2.0% rdg + 2dgt)	
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	

(*) The calculated value of step/contact voltage is obtained by the relationship: U_S=Umeas Iflt/Igen U_C=Umeas Iflt/Igen

Range of fault current (selectable): 10A ÷ 200kA Input resistance(selectable): 1kΩ, 1MΩ

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

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

Generated current: 55A max Test voltage: <55V Test frequency: 55Hz

Earth resistance measurement			
Measurement range	Resolution	Accuracy	
$0.001\Omega \div 1.999\Omega$	0.001Ω		
$2.00\Omega \div 19.99\Omega$	0.01Ω	\pm (2.0% rdg + 5 dgt)	
$20.0\Omega \div 99.9\Omega$	0.1Ω		
$100.0\Omega \div 199.9\Omega$	0.122	±(5.0% rdg)	

Open voltage: < 50V AC Test current: < 7.5A Frequency of test signal: 55Hz

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

 $(10\Omega + 100R)$ o $2k\Omega$ considering the lower value (Rc, Rp)max

Automatic test on the probe resistance:

Automatic detection of voltage noise

Earth resistivity measurement				
Measurement range	Resolution	Accuracy		
$0.00\Omega \text{m} \div 9.99\Omega \text{m}$	0.01Ωm			
$10.0\Omega \text{m} \div 99.9\Omega \text{m}$	0.1Ωm	Calculated value, consider accuracy of Resistance to earth function		
100Ω m ÷ 999Ω m	1Ωm			
1.00 k Ω m ÷ 9.99 k Ω m	0.01kΩm			
10.0kΩm ÷ 99.9kΩm	0.1kΩm			

Measurement principle: Wenner method $\rightarrow \rho = 2^*\pi^*$ distance* R

HT ITALIA SRL Via della Boaria 40 - 48018 Faenza (RA)- Italy

Tel: +39-0546-621002 - Fax: +39-0546-621144 email: export@htitalia.it - web: http://www.ht-instruments.com



HT2055

Rel. 1.00 of 20/09/11

Pag 2 of 2

Step/Contact measurement power unit

2. GENERAL SPECIFICATIONS

Power unit

Power supply: 230V AC (±10%), 50/60Hz

Max. power consumption: 750VA

Protection on power supply: fuse T 5A / 250V (5mm x 20mm)

Safety condition on meter: IEC/EN61010-1 Safety condition on test leads: IEC/EN61010-031

Installation over 1kVAC: HD 637 S1

Eart/resitivity measurements: ANSI/IEEE Std 81

Italian guideline: CEI 11-1 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 RS-232 (with voltmetric unit) Comunication interface:

Dimensions (LxWxH): 563 x 257 x 275mm

Weight (without accessories): 29.5kg

Voltmetric unit

Power supply: 6x1.2V rechargeable batteries NiMH type AA LR03

6x1.5V alkaline batteries type AA LR03

12 hours (typical) Battery (chargeable) life:

100-240V AC, 50-60Hz / 12V DC External power supply:

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 **IP40** Mechanical protection:

Display: LCD dot matrix (128 x 64) with backlight Auto Power OFF: after 15 minutes of idleness (not disable)

Internal memory: 1500 locations

Comunication interface: RS-232 and USB (to PC) Dimensions (LxLaxH): 230 x 115 x 103mm

Weight (with batteries): 1.3kg

ENVIRONMENTAL CONDITIONS:

Reference temperature: 10°C ÷ 30°C Reference humidity: 35% ÷ 65%RH Working temperature: $0^{\circ} \div 40^{\circ}C$ Working humidity: <80%HR Storage temperature: -10 ÷ 60°C Storage humidity: < 80%HR

This instrument complies to the prescriptions of the European directive on low voltage 2006/95/CE (LVD) and EMC 2004/108/CE

HT ITALIA SRL Tel: +39-0546-621002 - Fax: +39-0546-621144 email: export@htitalia.it - web: http://www.ht-instruments.com Via della Boaria 40 - 48018 Faenza (RA)- Italy