

EQUITEST 5071

Rel. 1.00 of 13/12/12

Instrument for continuity 10A and Line/Loop test

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1. ELECTRICAL SPECIFICATIONS

Uncertainty indicated as \pm [% readings + (no. of digits * resolution)] at 23°C \pm 5°C, <60%HR

Continuity test of earth of		
Range (Ω)	Resolution (Ω)	Uncertainty (*)
0.01 ÷ 9.99	0.01	±/2 00/ rda + 2dat)
10.0 ÷ 99.9	0.1	±(2.0%rdg + 2dgt)

(*) Considering calibration of test cables

Test current: > 200mA DC for $R \le 5\Omega$ (included calibration); Resolution of test current: 1mA

Open-circuit voltage: $4V \le V_0 \le 12V$

Continuity test of earth conductors with 10ARange (Ω)Resolution (Ω)Uncertainty $0.001 \div 0.999$ 0.001 $\pm (1.0\% \text{ rdg} + 2 \text{dgt})$

Test current: >10A AC for R $\le 0.45\Omega$

Resolution test current: 0.1A; Open-circuit voltage: <12VAC

Measurement method: 4 wires
Power supply voltage: 230V AC / 50Hz

Continuity test of earth conductors with 10A in compliance with IEC/EN60204-1:2006

	Resolution (Ω) Uncertainty	Resolution (Ω)	Range (Ω)
$0.001 \div 0.999$ 0.001 $\pm (1.0\% \text{ rdg} + 2\text{dgt})$	0.001 $\pm (1.0\% \text{ rdg} + 2\text{dgt})$	0.001	0.001 ÷ 0.999

Test current: >10A AC for R≤0.45Ω; Resolution test current:0.1A; Open-circuit voltage: <12VAC

Length measurement range: 0.1m ÷ 999.9m

Selectable section: $0.5, 1, 1.5, 2.5, 4, 6, 10, 16 \text{mm}^2$; Copper resistivity: $0.017 \Omega \text{mm}^2/\text{m}$

Measurement method: 4 wires
Power supply voltage: 230V AC / 50Hz

 Contact voltage Ut

 Range (V)
 Resolution (V)
 Uncertainty

 0 ÷ 2Utlim
 0.1
 -0%, +(10.0% rdg + 3dgt)

Utlim (UI): 25V, 50V

Frequency		
Range (Hz)	Resolution (Hz)	Uncertainty
47.0 ÷ 63.6	0.1	\pm (0.1% rdg + 1dgt)

The Loop measurement is active only for 50Hz ±0.5Hz

Voltage (LOOP, Phase Sequence)		
Range (V)	Resolution (V)	Uncertainty
15 ÷ 440	1	±(3.0% rdg + 2dgt)

Line Impedance (Phase-Phase, Phase-Neutral)		
Range (Ω)	Resolution (Ω) (*)	Uncertainty
0.01 ÷ 9.99	0.01	1/E 00/ rdg 1 2dgt)
10.0 ÷ 199.9	0.1	\pm (5.0% rdg + 3dgt)

(*) 0.1 m Ω on range 0.0 \div 199.9 m Ω (with IMP57 optional accessory)

Maximum peak current: 3.65A (at 127V); 6.64A (at 230V); 11.5A (at 400V)

Test voltage: $100 \div 255 \text{ V (Phase-Neutral)} / 100 \div 440 \text{ V (Phase-Phase)}; 50 \text{Hz} \pm 0.5 \text{Hz}$

Fault Loop Impedance (Phase-Ground)		
Range (Ω)	Resolution (Ω) (*)	Uncertainty
0.01 ÷ 9.99	0.01	
10.0 ÷ 199.9	0.1	\pm (5.0% rdg + 3dgt)
200 ÷ 1999	1	

(*) $0.1~m\Omega$ on range $0.0 \div 199.9~m\Omega$ (with IMP57 optional accessory) Maximum peak current: 3.65A (at 127V); 6.64A (at 230V) Test voltage: 100 \div 255V (Phase-Ground); 50Hz \pm 0.5Hz

Fault Loop Resistance R _A without RCDs tripping			
	Range (Ω)	Resolution (Ω)	Uncertainty
	1 ÷ 1999	1	±(5.0% rdg + 3dgt)

Test current: 15mA ; Phase-Ground voltage: 100 \div 255V 50Hz \pm 0.5Hz

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



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2. GENERAL SPECIFICATIONS

REFERENCE GUIDELINES

Safety:: IEC/ENEN61010-1
Product type standard: IEC/EN61557-1, 3, 4, 7

Insulation: double insulation

Pollution degree: 2

Measurement category: CAT II 600VAC (inputs) / 350VAC (to ground)

CAT III 600V AC (inputs) / 300VAC (to ground)

Max altitude of use: 2000m

DISPLAY AND MEMORY:

Features: Dot matrix with backlight

Resolution: 128x128 dots Memory: 999 measures

POWER SUPPLY:

Batteries: 6x1.5V alkaline batteries type LR6 AA AM3 MN1500

Battery life: LOW Ω : > 80 test

LOOP:>1000test; Ra =:>1000 test Phase sequence: > 1000 test

Mains power supply: 230V- 50Hz (Continuity 10A features only)

MECHANICAL FEATURES:

Dimensions (L x W x H): 225x165x105mm

Weight (included batteries): 1.7kg

WORKING ENVIRONMENTAL CONDITIONS:

 $\begin{array}{lll} \mbox{Reference temperature:} & 23^{\circ}\mbox{C} \pm 5^{\circ}\mbox{C} \\ \mbox{Working temperature:} & 0^{\circ} \div 40^{\circ}\mbox{C} \\ \mbox{Allowed relative humidity:} & < 80\% \mbox{ HR} \\ \mbox{Storage temperature:} & -10 \div 60^{\circ}\mbox{C} \\ \mbox{Storage humidity:} & < 80\% \mbox{ HR} \\ \end{array}$

This instrument complies with the requirements of the European Low Voltage Directives 2006/95/EEC (LVD) and EMC 2004/108/EEC