

**TECHNICAL DATA** 

# Fluke 1662 Multifunction Testers



×

## **Key features**

A solid, reliable, basic installation tester

- Tests voltage and frequency
- Checks wiring polarity to detect broken N wires
- Measures insulation resistance and loop and line resistance
- Measures motor windings with continuity test
- Calculates prospective earth fault current (PEFC/IK) and prospective short-circuit current (PSC/IK)

## **Product overview: Fluke 1662 Multifunction Testers**

#### Fluke 1662 Multifunction Installation Tester delivers solid, basic installation testing features

The Fluke 1662 installation tester gives you Fluke reliability and all the basic testing power you need for day-in, day-out installation testing. It tests to all local regulations and is easy and intuitive to use. Additional helpful features like the On/Off switchable auto-start for RCD and loop test, and self-test save time and give you more confidence in your results.

• Measures RCD switching time and tripping level (ramp test)



- Measures trip time and current for RCD type A & AC in one test
- Measures RCD variable current
- Provides automatic RCD test sequence
- Includes Z-max memory for loop tests to support easy evaluation of the highest loop test value
- Provides unique zero adapter for fast, reliable and accurate test lead and mains cord compensation
- Includes a phase sequence indicator
- Comes with hard carrying case, padded carrying and waist strap, and remote control probe and lead

## **Specifications: Fluke 1662 Multifunction Testers**

AC voltage measurement		
Range	500 V	
Resolution	0.1 V	
Accuracy 45 Hz – 66 Hz	0.8% + 3	
Input impedance	360 κΩ	
Overload protection	660 V rms	
Continuity testing (RLO)		
Range (autoranging)	20 Ω / 200 Ω / 2000 Ω	
Resolution	0.01 Ω / 0.1 Ω / 1 Ω	
Open Circuit Voltage	>4 V	
Insulation resistance measurement (RISO)		
Accuracy of test voltage (at rated test current)	+10%, -0%	
Test voltage	100 V 250 V 500 V 1000 V	
Insulation resistance range	20 MΩ / 50 MΩ 20 MΩ / 100 MΩ 20 MΩ / 200 MΩ 20 MΩ / 200 MΩ / 500 MΩ 20 MΩ / 200 MΩ / 1000 MΩ	
Resolution	0.01 MΩ / 0.1 MΩ 0.01 MΩ / 0.1 MΩ 0.01 MΩ / 0.1 MΩ 0.01 MΩ / 0.1 MΩ / 1 MΩ 0.01 MΩ / 0.1 MΩ / 1 MΩ	
Test current	1 mA @ 50 kΩ 1 mA @ 100 kΩ 1 mA @ 250 kΩ 1 mA @ 500 kΩ 1 mA @ 1 MΩ	
Loop and line impedance (ZI)		
Range	10 $\Omega$ / 0.001 $\Omega$ / High current m $\Omega$ mode	
Resolution	0.01 Ω / 0.1 Ω / 1 Ω	

2 Fluke Corporation Fluke 1662 Multifunction Testers



Range	1000 A / 10 kA (50 kA)		
Resolution	1 A / 0.1 kA		
Computation	Prospective earth fault current (PEFC) or Prospective short circuit current (PSC) determined by dividing measured mains voltage by measured loop (L-PE) resistance or line (L-N) resistance, respectively.		
RCD testing, RCD types tested			
RCD Type	A <sup>4</sup> , AC <sup>1</sup> , G <sup>2</sup> , S <sup>3</sup>		
Notes	<sup>1</sup> Responds to AC <sup>2</sup> General, no delay <sup>3</sup> Time delay <sup>4</sup> Responds to pulsed signal <sup>5</sup> Responds to smooth DC signal		
Tripping speed test (ΔT)			
Current seings <sup>1</sup>	10-30-100-300-500-1000 mA – VAR 10-30-100 mA		
Multiplier	x ½, x 1 x 5		
Measurement range	RCD Type G	310 ms 50 ms	
	RCD Type S	510 ms 160 ms	
Notes	<sup>1</sup> 1000 mA type AC only 700 mA maximum type A in VAR mode VAR mode not available for type B.		
RCD/FI-Tripping Current Measureme	nt/Ramp Test (I∆N)		
Current range	30% to 110% of RCD rated current <sup>1</sup>		
Step size	10% of I $\Delta N^2$	10% of I∆N <sup>2</sup>	
Dwell time	Type G	300 ms/step	
	Type S	500 ms/step	
Measurement accuracy	±5%	±5%	
Specified trip current ranges (EN 61008-1)	50% to 100% for Type AC 35% to 140% for Type A (>10 mA) 35% to 200% for Type A (□10 mA) 50% to 200% for Type B <sup>2</sup> 5% for Type B		
Notes	<sup>1</sup> 30% to 150% for Type A IΔN > 10 mA 30% to 210% for Type A IΔN = 10 mA 20% to 210% for Type B		
Phase Sequence Indication			
Icon	Phase Sequence indicator is active.		



Size (L x W x H)	10 x 25 x 12.5 cm
Weight (incl. baeries)	1.3 (kg)
Baery size, quantity	Туре АА, 6 еа.
Sealing	IP-40
Safety	Complies with EN/IEC 61010-1 and EN/IEC 61010-2-034
Overvoltage	CAT III / 500V; CAT IV 300V
Performance	EN61557-1 to EN61557-7 and EN61557-10



# **Ordering information**

#### FLK-1662

Fluke 1662 Multifunction Installation Tester

Includes:

- 6x AA (IEC LR6) cell batteries
- C1600 hard carrying case
- Zero adapter
- Heavy duty mains cord
- STD standard test lead set
- Padded carrying and waist strap
- Quick reference guide
- TP165X remote control probe and lead



#### Fluke. Keeping your world up and running.®

Fluke (UK) Ltd. 52 Hurricane Way Norwich, Norfolk NR6 6JB United Kingdom Tel.: +44 (0)20 7942 0708 E-mail: cs.uk@fluke.com ©2025 Fluke Corporation. All rights reserved. Data subject to alteration without notice. 03/2025

Modification of this document is not permitted without written permission from Fluke Corporation.