

# Technical Specifications

## Insulation Resistance

Insulation Resistance (nominal voltages 50V, 100V & 250V DC)

Measuring Range (MΩ)	Resolution (MΩ)	Accuracy
0.00 ... 19.99	0.01	±(5% of reading + 3 digits)
20.0 ... 99.9	0.1	±(10% of reading)
100.0 ... 199.9	0.1	±(20% of reading)

## Insulation Resistance (500V and 1000V DC)

Measuring Range (MΩ)	Resolution (MΩ)	Accuracy
0.00 ... 19.99	0.01	±(5% of reading + 3 digits)
20.0 ... 199.9	0.1	±(5% of reading)
200.0 ... 999	1	±(10% of reading)

## Voltage

Measuring Range V	Resolution V	Accuracy
0 ... 1200	1	±(3% of reading + 3 digits)

## Resistance R LOWΩ

Measuring Range R(Ω)	Resolution (Ω)	Accuracy
0.00 ... 19.99	0.01	±(3% of reading + 3 digits)
20.0 ... 199.9	0.1	±(5% of reading)
200.0 ... 1999	1	±(5% of reading)

Open-circuit voltage: 6.5V DC ... 9V DC  
 Measuring current: min. 200mA into load resistance of 2Ω  
 Automatic polarity reversal of the test voltage

## RCD Testing

**General Data**  
 Nominal residual current (A, AC): 10mA, 30mA, 100mA, 300mA, 500mA, 1000mA  
 Nominal residual current accuracy: ±5%  
 Test current shape: sine-wave (AC), pulsed (A)  
 RCD Type: G (non-delayed), S (time-delayed)  
 Test current starting polarity: 0° or 180°  
 Voltage range: 50V ... 264V (45Hz ... 65Hz)

## Trip-out Time

Measuring Range (ms)	Resolution (ms)	Accuracy
0.0 ... 40.0	0.1	±1ms
0.0 ... max. time	0.1	±3ms

## Trip-Out Current

Measuring Ranges IΔ	Resolution IΔ	Accuracy
0.2xIΔN ... 1.1, 1.5, 2.2xIΔN (AC type)	0.05xIΔN	±0.1xIΔN

## Socket Test (RLN, RLPE, RNPE, RPE)

Measuring current: min. 200mA into load resistance of 2Ω

Measuring Range R(Ω)	Resolution (Ω)	Accuracy
0.00 ... 19.99	0.01	±(3% of reading + 3 digits)
20.0 ... 199.9	0.1	±(5% of reading)
200.0 ... 1999	1	±(5% of reading)

Test lead compensation: up to 5Ω  
 Automatic polarity reversal of the test voltage

## Fault Loop Impedance

No RCD and With RCD

Measuring Range (Ω)	Resolution (Ω)	Accuracy
0.00 ... 9.99	0.01	±(5% of reading + 5 digits)
10.0 ... 99.9	0.1	
100 ... 999	1	±(10% of reading)
1.00k ... 9.99k	10	

Prospective fault current (calculated value)

Measuring Range (A)	Resolution (A)	Accuracy
0.00 ... 9.99	0.01	Consider accuracy of fault loop resistance measurement
10.0 ... 99.9	0.1	
100 ... 999	1	
1.00k ... 9.99k	10	
10.0k ... 23.0k		

Test current (at 230V): 6.5A (10ms)  
 Nominal voltage range: 30V ... 500V (45Hz ... 65Hz)  
 No trip out of RCD  
 R, XL values are indicative

## Voltage, Frequency & Phase Rotation

### Voltage

Result type: TRUE RMS  
 Nominal frequency range: 0Hz, 14Hz ... 500Hz

Measuring Range (V)	Resolution (V)	Accuracy
0 ... 550	1	+(2% of reading + 2 digits)

### Frequency

Measuring Range (ms)	Resolution (ms)	Accuracy
0.0 ... 40.0	0.1	±1ms
0.0 ... max. time	0.1	±3ms

### Phase Rotation

Result Displayed: 1.2.3 or 3.2.1

### General Data

Overvoltage Category: 600V CAT III/300V CAT IV  
 Protection Degree: IP40  
 Display: 128 x 64 dot matrix display with backlight  
 Dimensions: 14cm x 8cm x 23cm  
 Weight: 1.0kg without batteries  
 Temperature Range: 0°C to 40°C  
 Maximum Relative Humidity: 95% RH  
 Power Supply Voltage: 9 V DC (6 x 1.5 rechargeable batteries), 20 hours operation.

## For Logging and Reporting Applications - InstalTest 3017



The InstalTest 3017 is a logging multi-function, installation and Pass/Fail tester with 4,000 results memory, compliance reporting software and Pass/Fail limits set to AS/NZS3017.

# InstalTest COMBO

## The 3-In-1 Complete Electrical Tester



### 1. Multi-Function Tester

Replaces 5 instruments with 12 tests in one instrument: Multimeter, Insulation Tester, RCD Tester, Fault Loop/Line Impedance Tester and Phase Sequence Tester.

### 2. Installation Tester

Installation testing to AS/NZS3000 and AS/NZS3017 covering Earth Continuity, Insulation Resistance, Polarity, Correct Connections, Fault Loop Impedance and RCD Tests.

### 3. Pass/Fail Tester

New "test sockets in seconds" with single push button **without trailing leads**. Preset and user defined Pass/Fail limits with red/green LED and on-screen tick and cross display.

Watch The "Test Sockets in Seconds" Training Video on YouTube



"Designed for Testing to AS/NZS3000 Wiring Rules and AS/NZS3017 Electrical Installations"