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ALL NEW DL9118 Multifunction Tester

DL9118 Specification

The ALL NEW DL9118 multifunction tester has been designed to fully comply with the testing requirements of the 17th Edition. It also incorporates many of the features that we have come to expect with modern MFTs. It is designed to be worn around the neck with a comfortable harness, for easy function selecting and testing.

The All NEW RCD-LOC *XLT* feature allows loop testing without tripping any type of RCD or RCBO with very high accuracy. The DL9118 is also packed full of features, such as a Remote Test Probe, Auto Start Loop & Continuity, colour changing LCD display indicating error, and comes complete with a toolbox style carry case. All in all, the DL9118 offers incredible value for a feature packed MFT meeting all the safety and performance requirements of BS EN 61557.

Features

- Loop Impedance – Unique auto start RCD-LOC *XLT* loop test principle will not trip any RCD
- Prospective short circuit current – with auto start and direct readout of PSCC
- High Current Loop Test – auto start loop test with high current Z_e measurement
- Phase Rotation Test – will indicate the correct phase sequence
- Continuity test – with auto start & null facility to zero out lead resistance
- RCD testing – Trip time, trip current, auto test and ramp current
- RCD auto test – test RCDs in auto mode and simply recall the test results once finished
- Insulation measurement – with 250, 500 & 1000V test voltages
- Integrated socket polarity test
- Fully protected against damage when accidentally connected across phases

Technical Specification

Voltage

Range	0V to 440V
Accuracy	+/- 5% +/- 2digits from 0 to 100Hz
Resolution	1V

Continuity

Range	0.01Ω to 200Ω
Accuracy	+/- 2% +/- 5 digits
Resolution	0.01Ω to 1.99Ω 2.0Ω to 19.9Ω 20Ω to 200Ω
Test Voltage	>4Vdc >25Vdc Open Circuit
Test Current	>200mA



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Compliance IEC61557-4 and IEC61557-10

Insulation

Range 0.05M Ω to 200M Ω
 Accuracy +/-5% +/-5 digits
 Resolution 0.01M Ω to 1.99M Ω
 2.0M Ω to 19.9M Ω
 20M Ω to 200M Ω
 Test Voltage 250V/500V/100V
 Test Current 1mA
 Compliance IEC61557-2 and IEC61557-10

No Trip Loop Impedance

Range 0.01 Ω to 2000 Ω
 Typical Accuracy +/-5% +/-12 digits (to 1.99 Ω) +/-5 digits (to 2000 Ω)
 Resolution 0.01 Ω to 1.99 Ω
 2.0 Ω to 19.9 Ω
 20 Ω to 2000 Ω
 Test Current <15mA RMS

High Current Loop Impedance

Range 0.01 Ω to 2000 Ω
 Typical Accuracy +/-5% +/-5 digits
 Resolution 0.01 Ω to 1.99 Ω
 2.0 Ω to 19.9 Ω
 20 Ω to 2000 Ω
 Test Current 3.5A Peak

Loop Test PFC Measurement

Range 1A to 26kA
 Accuracy +/-5% +/-5 digits
 Range 1A to 999A
 1kA to 26kA

High Current Line Impedance

Range 0.01 Ω to 2000 Ω
 Typical Accuracy +/-5% +/-5 digits
 Resolution 0.01 Ω to 1.99 Ω
 2.0 Ω to 19.9 Ω
 20 Ω to 2000 Ω
 Test Voltage Phase to Neutral 190V to 260V



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Phase to Phase 328V to 440V
Test Current 3.5A Peak

Line Test PSC Measurement

Range 1A to 26kA
Accuracy +/-5% +/-5 digits
Range 1A to 999A
1kA to 26kA

RCD Trip Time Test

Range 0ms to 2000ms
Accuracy +/-5% +/-2 digits
Range 0 to 2000ms ½ 1x
0 to 300ms 1x general (500ms selective)
0 to 40ms 5x
Test Current 10mA/30mA/100mA (½ , 1x, 5x current)
300mA/500mA (½, 1x current)
Compliance IEC61557-6 and IEC61557-10

RCD Trip Current Test

Range 0.5 IΔn to 1.1 IΔn
Accuracy +/-5% of expected current
Step Size 0.1*Δn
Step duration 300ms
Compliance IEC61557-6 and 61557-10