

CERTIFICATE OF CALIBRATION

Issued by: RS Components Ltd

Date Issued: 18 Nov 2022

Certificate No.

1771481



RS Calibration

Calibration and Repair Service

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A handwritten signature in black ink, appearing to read 'DAW'.

Duncan Wyper

Client	VIAMED LTD KEIGHLEY WEST YORKSHIRE BD20 7DT
Instrument	Seaward Primetest 100 Portable Appliance Tester
Serial No.	Z28-0458
Client Reference	CE138
Procedure ID.	717.3653 Rev. P1
Date of Calibration	18 Nov 2022

Equipment Used to Carry Out Calibration	Equipment ID.
Transmille 3200 Electrical Test Equipment Calibrator	Cal 958
Transmille IEC Lead	id : 4359

The measurements reported in this certificate were carried out using equipment whose values are traceable to national standards.

The management controls of the RS Calibration Laboratory are registered under the British Standard BS EN ISO 9001 : 2015 No. RS 00362.

Uncertainties

The reported expanded uncertainties are based on a standard uncertainty multiplied by a coverage factor $k = 2$, providing a level of confidence of approximately 95%.

This certificate reports recorded values for the instrument 'As Received'.

For certificate statements of conformity see Appendix SCQAR 533

The following calibration results relate only to the items defined above.

This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory.

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Environment

The ambient temperature and relative humidity throughout the calibration were $(20 \pm 2)^\circ\text{C}$ and $(40 \pm 20)\%$ RH respectively.

Method

Prior to the calibration the instrument was held within the laboratory for a period of not less than 30 minutes.

The instrument was calibrated by applying values to the input terminals and recording the displayed values in the tables below.

Function	Range	Applied Value	UUT Display	Measurement Uncertainties
<u>Earth Continuity</u>	20 Ω	0.149 Ω	0.15 Ω	$\pm 0.019 \Omega$
		0.265 Ω	0.26 Ω	$\pm 0.016 \Omega$
		5.049 Ω	5.01 Ω	$\pm 0.053 \Omega$
		10.075 Ω	9.98 Ω	$\pm 0.096 \Omega$
<u>Insulation Resistance</u> <u>500 V</u>	20 $M\Omega$	2.00 $M\Omega$	2.01 $M\Omega$	$\pm 0.015 M\Omega$
		7.00 $M\Omega$	7.02 $M\Omega$	$\pm 0.082 M\Omega$
		10.00 $M\Omega$	9.97 $M\Omega$	$\pm 0.116 M\Omega$
<u>Leakage Current</u>	20 mA	1.990 mA	1.92 mA	± 0.041 mA
		4.690 mA	4.61 mA	± 0.085 mA
		7.680 mA	7.66 mA	± 0.136 mA

A correctly wired IEC mains lead was connected between the 13A socket and the IEC sockets to test for correct indication.

Result : The UUT correctly indicated a PASS.

An IEC mains lead with the fuse removed was connected between the 13A socket and the IEC sockets to test for correct indication.

Result : The UUT correctly indicated a FAIL.

An IEC mains lead with the L and N wires crossed over, was connected between the 13A socket and the IEC sockets to test for correct indication.

Result : The UUT correctly indicated a FAIL.

CALIBRATED BY:- DAW

The calibration was completed using the customer's Earth Bond lead

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Compliance to Specification

The specification published by the manufacturer and found in the instrument's handbook has been used to determine performance at the measured points.

Reported values not annotated.

The instrument passed the stated specification, due allowance having been made for the uncertainty of measurement which carries no implication regarding the long term stability of the instrument.

END OF CALIBRATION