




# INDUSTRIAL SERVICES (NW) Ltd

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Test Equipment // Sales // Calibration // Repair // Hire

## Certificate of Calibration

DATE OF ISSUE:	07 April 2016	CERTIFICATE No :	37998
NEXT CAL DUE :	07 April 2017	TEST RESULT:	PASS
MANUFACTURER:	Seaward	TEMPERATURE:	23.00 °C
MODEL No. :	Powertest1557	HUMIDITY:	45 %
DESCRIPTION :	Multifunction Tester	PROCEDURE NAME:	Powertest1557
SERIAL NUMBER:	03F-0160	Approved Signatories	
CUSTOMER:	<b>Clayton Fire &amp; Security LTD</b> c/o Newey & Eyre Worcester Units L1 & L2, Blackpole Trading Est Blackpole, Worcester WR3 8SG	L Eckersley / D Eckersley 	
		CALIBRATED BY:	D Aspinall

REMARKS: **Within Specification, No Adjustment**

Industrial Services (NW) Ltd certifies that the above listed instrument meets or exceeds all specifications as stated in the reference procedure unless otherwise noted. It has been calibrated using measurement standards traceable to National Standards, and to the units realised at the National Physics Laboratory.

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Industrial Services (NW) Ltd is an ISO 9001 Registered Company.

### Calibration Equipment :

<u>Asset #</u>	<u>Description</u>	<u>Cert No :</u>	<u>Serial No. :</u>	<u>Cal Date</u>	<u>Due Date</u>
4584	ISL ISL006 Resistance Box	35875	ISLA06	08/09/2015	08/09/2016
4585	Wavetek Datron 9100 Multifunction Calibrator	U222288	854444141	16/08/2015	16/08/2016
4586	Robin TX8000 Electrical Calibrator	648009	J800705	12/02/2016	12/02/2017



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## CALIBRATION RESULTS

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Di-Log 9083P

<b>INSULATION</b>	Range V	Applied M $\Omega$	Reading M $\Omega$	Voltage V	Current mA
	<b>100</b>	<b>0.250</b>	0.25	117	0.468
	<b>100</b>	<b>0.502</b>	0.50	114	0.227
	<b>100</b>	<b>1.005</b>	1.00	117	0.116
	<b>100</b>	<b>99.1</b>	99	118	0.001
	<b>250</b>	<b>0.250</b>	0.25	255	1.020
	<b>250</b>	<b>0.502</b>	0.50	289	0.576
	<b>250</b>	<b>1.005</b>	0.99	295	0.294
	<b>250</b>	<b>99.1</b>	99	298	0.003
	<b>500</b>	<b>0.250</b>	0.25	334	1.336
	<b>500</b>	<b>0.502</b>	0.50	532	1.060
	<b>500</b>	<b>1.005</b>	1.00	598	0.595
	<b>500</b>	<b>99.1</b>	98	631	0.006

<b>CONTINUITY</b>	Applied $\Omega$	Reading $\Omega$	Current mA
	<b>0.174</b>	0.16	265
	<b>0.563</b>	0.55	260
	<b>1.069</b>	1.04	255
	<b>11.43</b>	11.4	157
	<b>99.1</b>	99	37

<b>VOLTAGE</b>	<b>DC VOLTAGE</b>		<b>AC VOLTAGE @50Hz</b>	
	Applied	Reading	Applied	Reading
	<b>100</b>	100	<b>100</b>	100
	<b>250</b>	250	<b>250</b>	251
	<b>415</b>	414	<b>415</b>	415



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## CALIBRATION RESULTS

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Di-Log 9083P

<b>LOOP IMPEDANCE</b>	Range $\Omega$	Applied $\Omega$	Reading $\Omega$
	<b>20</b>	0.60	0.63
	<b>20</b>	1.09	1.14
	<b>20</b>	5.65	5.8
	<b>20</b>	10.63	10.6
	<b>200</b>	99.4	102
	<b>2000</b>	998	1006

<b>LOOP IMPEDANCE (no Trip)</b>	Range $\Omega$	Applied $\Omega$	Reading $\Omega$
	<b>20</b>	1.09	1.14
	<b>20</b>	5.65	5.7
	<b>20</b>	10.63	10.8

**PSC** PASS

<b>MAINS VOLTAGE</b>	Applied V	Reading V
	<b>241</b>	<b>242</b>

<b>RCD</b>	Rated Tripping Current mA	Test Current mA	Applied Time mS	Indicated Time mS
	<b>1/2 x 10</b>	<b>5</b>	4.8	-
		<b>10</b>	10.7	40
	<b>1/2 x 30</b>	<b>15</b>	14.1	-
		<b>30</b>	32.3	30
		<b>100</b>	107.5	40
	<b>5 x 30</b>	<b>150</b>	148.8	40
		<b>300</b>	314.5	49
		<b>500</b>	533.2	101



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## SERVICE REPORT FOR METER

	Good	Ok	Poor Needs Changing	None Present
Test leads	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Crocs	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Probes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Mains	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

NB. The condition of your leads can have an adverse effect on the reading on testing especially low ohms,

Good - good condition meaning they will not have any effect on the readings

Ok - Wear is starting to appear and may have slight effect on readings

Poor Needs Changing - your items are in bad condition and will have an effect on readings these will need to be changed

### Service Test

Null Test for Continuity	Pass
Display Test	Pass
Function Switches Test	Pass
Battery Level	Good
Button Test	Pass
Fault/Faults Reported from customer	None

Unit was allowed to stabilise under laboratory conditions before calibration was undertaken

All tests passed during calibration procedure