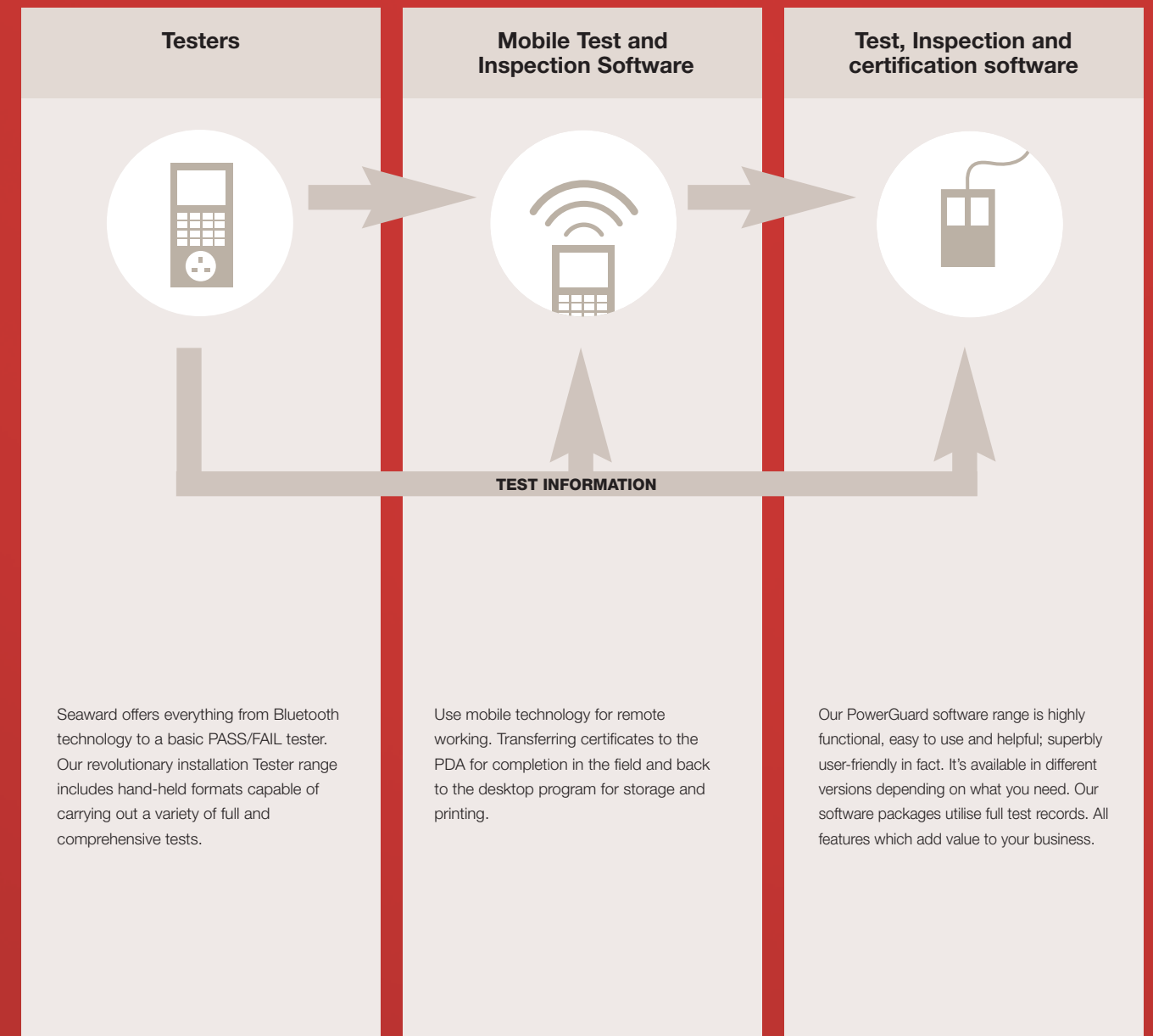


INSTALLATION SYSTEM

Technological advances are transforming the installation testing industry.

Our testers are at the forefront.

Today's world moves at an unprecedented pace: things change every day. Everything's smarter, smaller and faster. This is good news for us, and for you. It means we're developing and manufacturing better equipment and can incorporate technologies like PDA test management. And we're not confined to supplying test equipment. We can now help your business or institution become more efficient and effective. We call it PowerSolutions. This groundbreaking process involves everything from choosing your installation Tester to following up with calibration services and software. It streamlines your processes, reduces costs, increases productivity and improves profits.



PROBING QUESTIONS

The most sensible,
technologically advanced
installation tester. Ever.



Thanks to a cordless probe and some great design thinking, you can hold and read the PowerTest 1557 at the same time. No other installation tester lets you do this. This development comes from our guys being in the field, testing installations with our clients. The 1557 weighs a paltry 900 grammes, fits into the palm of your hand and carries out the following tests with a simple turn of the knob.

- Earth Continuity
- Non Trip Loop Impedence
- Line Impedence PSC, PFB
- RCD Trip Time
- RCD Trip Current
- Auto RCD sequence
- Voltage/Frequency
- Comprehensive Testing Features:

Comprehensive 16th and 17th edition and Part-P Testing features allow for a great number of tests, which include: Earth Continuity, Insulation (100v, 250v, 500v), Non Trip Loop Impedence, Line Impedence, PSC, PFC, RCD Trip Current, RCD trip time and Voltage/Frequency measurement.



INSTALLATION GUIDE

How to find the right solution for your installation test requirements.

Testers & Functions											
▼ Functions	Tester ▶	PowerTest 1557	IRT 1557	ERT 1557	DM800	DM800R	CM800	CM800R	ET800	VT800	VT800D
Voltage		■	■		■	■	■	■	■	■	■
Frequency		■			■	■			■		
Current					■	■	■	■	■		
Resistance		■	■		■	■	■	■			■
Wiring polarity		■									
Insulation 100V		■									
Insulation 250V		■	■								
Insulation 500V		■	■								
Insulation 1000V			■								
Continuity (200mA)		■	■						■		
Continuity Buzzer		■	■		■	■	■	■		■	■
Loop/Line Resistance		■									
PFC/PSC		■									
RCD Trip time		■									
RCD Trip current		■									
Auto RCD seq		■									
Earth Resistance				■							
Phase Rotation										■	■
Backlight			■								
True RMS						■		■			
Digital Readout		■	■	■	■	■	■	■			■
Integrated probe		■	■						■	■	■
Data hold					■	■	■	■			
Max/min					■	■	■	■			
Dimensions (mm)											
Weight											

Accessories											
▼ Accessories	Tester ▶	PowerTest 1557	IRT 1557	ERT 1557	DM800	DM800R	CM800	CM800R	ET800	VT800	VT800D
Checkbox 16 plus		■	■								
Proving units PPX, PP1, PP2					■	■	■	■	■	■	■
Fused Test leads		■	■		■	■	■	■	■		
ERT current clamp				■							

Software			
▼ Functions	Software ▶	PowerGuard Pro 2	PowerGuard Pro Mobile 2
Desktop		■	■
Easy Setup Wizard		■	■
Add own Company Details & Logo		■	■
Optional Username & Password		■	■
Part P Desktop Certificates		■	■
BS7671 Desktop Certificates		■	■
NAPIT Desktop Certificates		■	■
NICEIC Desktop Certificates		■	■
BS5839 Desktop Certificates		■	■
Auto Validation of Certificate Content		■	■
Check-in Check-Out Desktop Certificates		■	■
Add Signatures		■	■
Print Preview		■	■
Print Site Surveys		■	■
Email PDF Certificates		■	■
Easy Mobile Setup Wizard			■
Synchronise Information (PDA/Desktop)			■
BS7671 PDA Certificates			■
NAPIT PDA Certificates			■
NICEIC PDA Certificates (excludes Fire)			■
Edit Company Details at PDA			■
Edit Test Instruments at PDA			■

POWERTEST 1557

The only Installation Tester
to feature an integral probe.
The professional's choice.

Regulation compliant	Integral probe
Loop impedance	Phase to phase testing
Auto RCD test	Long battery life
Ideal users: ■ Electrical Contractors ■ Training Institutions ■ Electrical Engineers ■ Power system Engineers	

Thanks to a cordless probe and some great design thinking, you can hold and read the PowerTest 1557 at the same time. No other installation tester lets you do this. The 1557 weighs 900 grammes, fits into the palm of your hand and carries out the following tests with a simple turn of the knob. Earth Continuity, Insulation(100v, 250v, 500v), Non Trip Loop Impedance, Line Impedance, PSC, PFC, RCD Trip line, RCD Trip current and voltage/frequency measurement. Supplied with 2 year warranty, 6x1.5 v cells LR6 Type AA alkaline batteries, test lead set 1.5M red, black, green 4mm shrouded safety plugs to red, black, green shrouded safety test probes, red, black, green 4mm standard safety plugs to UK mains plug. Red, cordless shrouded safety test probe.

Professional PowerSolutions Package:

PowerSolutions is a way of approaching all aspects of electrical testing. From testers themselves to information management software, through to label printers and more. You can buy each tester and its accessories separately or as an optional PowerSolutions package which includes everything you need to run an efficient installation testing business. Package includes:

- PowerTest 1557
- PowerGuard Pro 2 software option
- PowerGuard Pro 2 Mobile software option



TESTS

Earth Continuity

Test Current	>200mA
Display Range	0.00ohm - 199ohm
Resolution	0.01ohm maximum
Test Lead Compensation	Null lead resistance 0.00ohm - 10.00ohm
Live Circuit Detection	Test inhibit if >30V detected

Insulation Resistance

Test Voltage	100V, 250V, 500V
Display Range	0.05Mohm – 199Mohm
Resolution	0.01Mohm maximum
Live Circuit Detection	Test inhibit if >30V detected

Loop/Line Impedance

Supply Voltage	195 - 253V/340-440V,45Hz-65Hz
Test Current	15mA (non tripping for RCD protected circuits)
Display Range	0.01ohm - 2000ohm
Resolution	0.01ohm maximum
Loop Impedance	Phase to Earth
Line Impedance	Phase to Neutral/Phase to Phase
PFC/PSC Range	0 – 26kA

RCD Trip Time

Supply Voltage	195 – 253V, 45 – 65Hz
Test Currents	10, 30, 100, 300, 500mA
Trip Time Ranges	0ms – 2000ms at 1/2 I _{rn} 0ms – 300ms at I Δ n general 0ms – 500ms at I Δ n selective 0ms – 40ms at 5x I Δ n
Auto Test	Auto sequence for 1/2 I Δ n, I Δ n and 5x I Δ n at 0° and 180°
RCD Type	General (G), Selective (S), Pulsed (A), AC (AC)

RCD Trip Current (Ramp Test)

Supply Voltage	195 – 253V, 45 – 65Hz
Test Currents	10, 30, 100, 300, 500mA
Ramp Current Range	1/2 I _{rn} to 1.1 I _{rn}

Voltage/Frequency Measurement

Display Range	0 – 440V
Resolution	1V
Frequency Measuring Range	45 – 65Hz

ADDITIONAL INFORMATION

Compliance	IEC 61010-1 300V CAT III, EN 61557
Dimensions	260 x 100 x 55
Weight	950g
Power Supply	6 x AA Alkaline (supplied), 6 x AA NiMH . Rechargeable (Optional)

ACCESSORIES

- PowerCheck 1557 (349A910)
- PowerGuard Pro (355A910)
- PowerGuard Pro Mobile (355A910)

PowerTest 1557 part no: 328A910

NEW

IRT 1557

Insulation, Resistance and Continuity tester.
The Engineer's ideal companion.

Handheld	Lightweight
Long battery life	Large backlit LCD
16th/17th Edition compliant	Continuous test mode
Ideal users: ■ Electricians ■ Telecomms engineers ■ Power system engineers ■ Electrical contractors	



The IRT 1557 is a small, lightweight insulation resistance and continuity tester. Hand-held, it's a superb addition to any test engineer's toolkit. It performs measurements according to BS 7671 16th/17th Edition Wiring Regulations and Part P. Seaward's unique integrated safety probe puts the LCD and test probe in the user's line of sight whilst making measurements, no other tester does this. IRT 1557 is fully compliant with EN61557-4 and IEC61010-1 600v CAT III. Automatic discharge of capacitive circuits, it gives you automatic warning of the presence of hazardous voltages and double fuse protection. It comes with an easy to use rotary setting switch. The IRT 1557 offers a number of unique features, including voltage measurements up to 1000AC or DC and a dual safety rating. With incredible robustness the IRT 1557 provides all the tests you need with a safe feel.

TESTS

Insulation Resistance

Display Range	0.001ohm - 1999ohm
Analogue Bar Graph	0ohm - infinity
Test Voltage	250v; 500v; 1000v
Nominal Current	1mA minimum per EN 61557
Audible/Visible Warning	30 V AC or DC at inputs

Continuity

Display Range	0.00ohm - 19.99ohm
Open Circuit Test Voltage	4V DC nominal
Test Current	200mA,
Audible and Visible warning	Inhibited if 30 AC or DC inputs

Resistance

Measuring Range	0ohm - 2000ohm
Test Current	25uA nominal
Audible and Visible warning	Inhibited if 30 AC or DC inputs

Voltage

Measuring Range	0V - 1000V DC/AC to 400Hz
Analog Bar Graph	0 - 1000V
Audible/Visible Warning	30V AC or DC inputs

ADDITIONAL INFORMATION

Safety rating	IEC 61010-1, 600V CAT III / 1000V CAT II
Dimension	260mm x 100mm x 55mm
Weight	0.8kg
Standards	EN 61557-4
Compliance	ENG1557-1-4-10

ACCESORIES

PowerCheck 1557 (369A910)

IRT 1557 part no: 365A910

NEW

ERT 1557

A new high specification Earth Resistance Tester.

- Handheld
- Earth measurement
- Battery powered
- Download to PC or printer
- Store up to 500 records
- 2, 3, or 4 wire measurement
- Ideal users:**
 - Telecomms engineers
 - Power systems engineers
 - Electricians
 - Electrical contractors

Suitable for use on 110 v, 230 v and three phase electrical systems, this special lightweight unit provides accurate Earth electrode resistance measurement without disconnecting the electrode. It can also be used to measure soil resistivity. Earth resistance measurement is carried out using 2,3 and 4-wire method. The ERT has an internal memory for 500 test results which you can download to your conventional PC. Its user-friendly features include a large rotary dial for test selection, large LCD and simple push button test activation. The unit is supplied with four Earth spikes and full test lead set. The ERT is one of the most competitive Earth resistance testers on the market.



TESTS

Earth Resistance 2, 3 and 4 wire method

Display Range	0.00ohm - 50.0kohm
Measuring Frequency	125 Hz +/- 1 Hz
Measuring Current	<20mA effective
Measuring Voltage	<50V effective sine wave

Earth Resistance using current clamp

Display Range	0.0ohm - 2.00kohm
Measuring Frequency	125 Hz +/- 1 Hz
Measuring Current	<20mA effective
Measuring Voltage	<50V effective sine wave

Specific Earth resistance (ρ)

Display Range	0.00ohm - 1999kohm
Measuring Frequency	125 Hz +/- 1 Hz
Measuring Current	<20mA effective
Measuring Voltage	<50V effective sine wave

ADDITIONAL INFORMATION

Dimensions	260mm x 100mm x 55mm
Weight	0.8kg
Memory	500 memory locations
Communication	USB
Compliance	BN61557-5, IEC61010-1, 300V CAT II

ERT 1557 part no: 362A910

VT800/VT800D

A Voltage Tester that sets a new industry standard.

Fully Automatic

Integrated LED display

Durable and drop proof

Phase rotation indication

Integrated torch

Visual & audible indication

Ideal users: ■ Electricians

Electrical Installers and Testers all over the world all acknowledge the important role filled by Voltage Testers. In developing the VT800 and 800D, we talked to hundreds of professionals on shop floors around the globe and found out what they wanted from the next generation of Voltage Testers. We think that these two models reflect your concerns and ideas on how this vital tool of the trade should perform. Designed with this research in mind and fitted with multiple functions, these Testers are as truly versatile as they are compact and robust. They'll suit every electrician, installer or industrial end user perfectly.



SPECIFICATIONS

Voltage range	6V to 690V AC/DC
LED resolution	6, 12, 24, 36, 50, 120, 240, 400 690V (VT800)
LED range	10V - 690V AC/DC (VT800D)
LCD resolution	1V (VT800D)
Resistance	0 - 2Kohm (VT800D)
Response time	<0.1 s LED
Single Pole Phase Test	100V to 690VAC
Phase rotation	2 pole
Continuity	< 200kohm
Frequency range	45Hz to 65 Hz
Power supply	2x 1,5V LR03 battery
IP-Protection	IP 64
Over voltage category	CATIII 1000V / CATIV 600V
Standard	IEC 61010-1, IEC 61010-031, IEC 61243-3, EN 61557-7, HSE GS38
Probe Tips	2 mm. & 4 mm.
Drop proof	1 metre
Test leads	1.2 metre

ADDITIONAL INFORMATION

Dimensions	240 x 56 x 24 mm.
Weight	230 gram (incl. batteries)

VT800 part no: 332A910
VT800D part no: 333A910

DM800/DM800R

Compact Multimeters.

Backlit display

6000 count display

AC up to 750V

DC up to 1000V

Diode check

Auto power off

Ideal users: ■ Electrical contractors ■ Service engineers
■ Electricians

This series of Multimeters is designed with practicality and ease of function in mind. Slim shaped with a hand operated rotary switch, the DMs give a 6000 count back-lit digital display. They can be carried in a protective holster (supplied) which includes a built-in tilt stand, a hook hole and some convenient test lead storage. A true RMS reading is given on the DM800R. Both are rugged with long battery life, these products have everything you need.



SPECIFICATIONS

AC Voltage

Range	0V-750V
Max Resolution	0.1mV
Accuracy	+/- (0.9%+5d)
Overload Protection	750V rms

DC Voltage

Range	0V-1000V
Max Resolution	0.1mV
Accuracy	+/- (0.5%+2d)
Overload Protection	1000V rms

AC Current

Range	0A-10A
Max Resolution	1mA
Accuracy	+/- (1.5%+5d) 50Hz – 500Hz
Overload Protection	mA input 600V rms for (DM800R)

DC Current

Range	0A-10A
Max Resolution	0.1 uA
Accuracy	+/- (1.0%+2d)
Overload Protection	mA input 600V rms A input (500V) Fast blow fuse

Resistance

Range	0ohm - 60Mohm
Max Resolution	0.1 ohm
Accuracy	+/- (0.7%+2d) 600.0 - 600.0K +/- (1.0%+2d) 6.000M +/- (1.5%+2d) 60.00M
Overload Protection	600Vrms

Frequency

Range	0Hz-60MHz
Max Resolution	1Hz
Accuracy	+/- (0.01%+1d)
Overload Protection	600Vrms

Capacitance

Range	0Hz-6000 uF
Max Resolution	1pF
Accuracy	+/- (1.9%+8d)
Overload Protection	600Vrms

ADDITIONAL INFORMATION

Diode Test	Open Circuit Voltage: 3V
Input Protection	600V rms
Display	6000 count
Overload Indication	"OL" or "-OL"
Auto Power Off	Approx 10 minutes
Safety Standard	meets IEC61010-1/UL 31111 Specification
Battery Life	Alkaline 300 Hours
Power Requirement	IEC LR03 AM4 or AAA size 1.5 V x2
Size (WxLxH)	82mm x 164mm x 44mm
Power Requirement	NEDA 1604, IEL6F22, JIS006P
	9V battery
Weight	400g

ACCESSORIES

Proving units
Fused leads

DM800 part no: 317A910
DM800R part no: 318A910

CM800/CM800R

State of the art clamp multimeters

4000 count display	Backlit display
AC up to 600V	DC up to 600V
Display hold	Continuity beeper
Ideal users: ■ Electrical contractors ■ Electricians ■ Service engineers	

Slim shaped in design, the CM series come with hand operated rotary switches and easy to replace batteries. Both models are fitted with LED back-lit displays which turn ON or OFF at the touch of a button. The units have autopower off default when they're not in use. Both come supplied with carry cases. The two units are rugged and hardwearing, with real hold and max/min function. CM800R has true RMS reading.



SPECIFICATIONS

AC Voltage	
Range	- 0V – 600V
Max Resolution	- 100mV
Accuracy	- $\pm(1.0\% + 5d)$ 50Hz–500Hz
Overload Protection	- 600V rms

DC Voltage	
Range	- 0V – 600V
Max Resolution	- 100mV
Accuracy	- $\pm(0.7\% + 2d)$
Overload Protection	- 600V

AC Current	
Range	- 0v – 60.0A, 60.1A – 400A, 401A – 600A
Max Resolution	- 0.1A
Accuracy	- $\pm(1.9\% + 7d)$ 50Hz – 60Hz, $\pm(2.5 + 7d)$ 61Hz– 400Hz
Overload Protection	- 600A rms

Resistance	
Range	- 0ohm – 400.0 ohm
Resolution	- 0.1 ohm
Accuracy	- $\pm(1.0\% + 3d)$
Overload Protection	- 600V rms

Frequency	
Range	- 20Hz – 400Hz
Resolution	- 1Hz
Accuracy	- $\pm(0.1\% + 2d)$
Overload Protection	- 600A rms

ADDITIONAL INFORMATION

Diode Test	Open Circuit Voltage: 3V
Input Protection	600V rms
Display	6000 count
Overload Indication	“OL” or “-OL”
Auto Power Off	Approx 10 minutes
Safety Standard	IEC61010-1/UL 31111 Specification
Battery Life	Alkaline 300 Hours
Power Requirement	IEC LR03 AM4 or AAA size 1.5 V x2
Size (WxLxH)	82mm x 164mm x 44mm
Power Requirement	NEDA 1604, IEL6F22, JIS006P
	9V battery
Weight	400g

ACCESSORIES

Proving units
Fused test leads
CM800 part no: 319A910
CM800R part no: 320A910

POWERCHECK 1557

A complete instrument verification system.

- Rugged and robust
 - Tests to BS7671
 - Confirm performance
 - IET recommended
 - RCD test
 - Insulation resistance test
- Ideal users:** ■ Electricians ■ Service engineers
■ Electrical contractors

The PowerCheck 1557 is a full instrument verification system in one rugged, drop-proof enclosure. It tests to BS 76771, BS EN 61557 and IEE On-site Guide. It has full instrument verification against all relevant standards and confirms performance between verifications (this is information required by NICEIC, ELECSA, Corgi and others).

PowerCheck tests for Full Earth Continuity, Insulation Resistance, RCD Trip Time, RCD Trip Current and Loop Verification.



SPECIFICATIONS

Earth Continuity Verification

Test current	In >200mA indication
Test voltage	4V < Un > 24V indication
Test resistances	0.5ohm and 2ohm

Insulation Resistance Verification

Open circuit test voltage:	250V < Un < 313V indication 500V < Un < 625V indication 1000V < Un < 1250 indication
Test current	In >1mA into 1000?/V
Max test current	Ik <2mA
Test resistances	0.25Mohm, 0.5Mohm, 1.0Mohm

Earth Loop Verification

Test values	Loop, Loop+1ohm, Loop+180ohm
-------------	------------------------------

RCD Verification

Trip current	10mA, 30mA, 100mA
Trip Times	20ms, 40ms, 500ms
Test current multiplier	Dn, IDn and 5 IDn verification

Voltage Verification

Test Voltage	240V AC rms test output
--------------	-------------------------

ADDITIONAL INFORMATION

Power supply	230V AC ±10%
Weight	1kg
Dimensions	210mm x 145mm x 85mm
Power Source	6 x AA Batteries

PowerCheck 1557 part no: 369A910

POWERGUARD 2 SOFTWARE

Comprehensive certificate software.

- Easy set-up wizard
 - Auto validation
 - Print preview
 - Email PDF certificates
 - Create certificate templates
 - Certificates check in/out
- Ideal users:** ■ Electrical installers ■ Electrical contractors
■ Fire safety inspectors

PowerGuard Pro 2.

Comprehensive Certificate software.

PowerGuard Pro 2 is ideal for creating test and inspection certificates.

You can capture and store test information and go on to produce

professional certificates which comply with Part-P and 16th/17th

Edition Regulations. PowerGuard Pro 2 lets you print BS7671,

BS5839, BS5266, NCIEC and NAPIT certificates and reports onto plain

or certificate paper. You can even add scanned signatures if you

choose. It's a great little program that's fantastically simple to use.

PowerGuard Pro Mobile 2.

Record test results on the move.

PowerGuard Pro Mobile 2 is ideal for on site testing, allowing you to

enter tests and inspections into certificates too. You can enter test

inspections and indeed all your certificate information details direct

onto your PDA. Then you can synchronise with your desktop

computer in the office and print them out. You can print all BS7671,

BS5839, NCIEC and NAPIT certificates and reports onto plain or

certificate paper. You can even add scanned signatures if the occasion

demands. The program also allows you to take partly completed

certificates on-site to complete test and inspection. Remote offsite

working gives you the freedom and flexibility to work in a smarter way

when you're testing.



SPECIFICATION	POWERGUARD 2 SOFTWARE	
Functions	PowerGuard Pro 2	PowerGuard Pro Mobile 2
Easy Setup Wizard	■	■
Add own Company Details & Logo	■	■
Optional Username & Password	■	■
Part P Desktop Certificates	■	■
BS7671 Desktop Certificates	■	■
NAPIT Desktop Certificates	■	■
NICEIC Desktop Certificates	■	■
BS5839 Desktop Certificates	■	■
Auto Validation of Certificate Content	■	■
Check-in Check-Out Desktop Certificates	■	■
Add Signatures	■	■
Print Preview	■	■
Print Site Surveys	■	■
Email PDF Certificates	■	■
Easy Mobile Setup Wizard	■	■
Synchronise Information (PDA/Desktop)	■	■
BS7671 PDA Certificates	■	■
NAPIT PDA Certificates	■	■
NICEIC PDA Certificates (excludes Fire)	■	■
Edit Company Details at PDA	■	■
Edit Test Instruments at PDA	■	■
ADDITIONAL INFORMATION	PowerGuard Pro 2	PowerGuard Pro Mobile 2
Supported Equipment		PDA
System Requirements	<ul style="list-style-type: none"> ■ IBM compatible PC ■ Pentium 3 or higher ■ 256 MB RAM minimum ■ 25 MB hard disk space available ■ Microsoft Windows 2000 Professional, XP Professional, XP Home Edition ■ Microsoft Vista ■ CD ROM drive 	<ul style="list-style-type: none"> ■ IBM compatible PC ■ Pentium 3 or higher ■ 256 MB RAM minimum ■ 25 MB hard disk space available ■ Microsoft Windows 2000 Professional, XP Professional, XP Home Edition ■ Microsoft Vista ■ CD ROM drive
PDA Requirements		<ul style="list-style-type: none"> ■ Microsoft Pocket PC ■ Microsoft Pocket PC 2002 ■ Microsoft Windows Mobile 2003 ■ Microsoft Windows Mobile 2003 Second Edition ■ Microsoft Windows 5.0
Part no:	355A910	355A910