Apollo 600+

The best downloadable PAT tester on the market.

Our world beating **Apollo 600+** is now updated. It now has an improved range of pre-programmed test sequences. That allows the user to choose the test sequence based on the test requirements.

Straightforward PAT testing with simple data management
Following in the footsteps of Seaward's long line of trusted PAT testers, the Apollo 600+ offers a comprehensive suite of electrical safety tests to enable any workplace appliance to be tested. The Apollo 600+ also enables point to point testing of fixed appliances.

Visual evidence for full traceability
The Apollo 600+ has a built-in digital camera enabling images taken during visual inspections to be tagged against records in Seaward's PATGuard 3 software as evidence – making it the most comprehensive and traceable record-keeping system.

Why buy the new Apollo 600+

> Large on-board storage
> High definition colour display
> Remote data transfer from field to office
> Fixed appliance (point to point) testing
> Optional additional battery for extended operating time
> Integrated camera for easy photos in the field

Apollo 600+ Users:

> Electrical Contractors

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📞 +49 911 8602-0 ✉ info@gossenmetrawatt.com 🌐 www.gossenmetrawatt.com

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Superb software for total traceability

Apollo 600+ has 50,000 slots internal memories and an additional 2,000 images. Its compatibility with Seaward's PATGuard 3 software means that complete test records, including images, can be easily managed on a PC.

Easily transfer data to a PC remotely using the Apollo 600+'s local Wi-Fi function to create a hotspot and forward it through a compatible mobile phone or tablet. Alternatively, you can transport the results by downloading them onto a USB flash drive or transfer data directly using a USB lead when back at the office. Once downloaded to PATGuard 3, it is easy to keep track of the history of test and inspections, produce reports and invoices – offering total peace of mind and quicker, easier management of scheduling tests.

Time Manager 3 is an exciting software package, now included with PATGuard 3, and provides clear time management facilities. It's ideal for companies that manage off-site or remote testing staff and need to manage their business in a time efficient manner. It runs as part of PATGuard 3 software and provides clear graphical information on the user's activity such as number of tests taken, and time of tests.

Scan and print QR codes

Seaward's new QR code data system allows more data to be stored in your PAT label barcode including asset ID, site, location, last and next test dates. Using the Test n Tag Elite 2 printer you can now print labels that include our unique QR data code. The Apollo 600+ has the ability to read the data contained in the code via the 2D Elite Scanner and populate the fields automatically for quicker retesting without the need for data upload. For optimum ease of use, the printer and scanner are connected to the Apollo 600+ via Bluetooth®.

Electrical Test Functions:

> Low current earth continuity test guaranteeing accurate measurement (thanks to "Zap" circuit technology for low current testing with high intensity pulses)

> Insulation resistance

> IEC lead test

> Protective conductor current

> Touch current

> Load power/current

> Alternative leakage current

> Point to point testing of earth continuity and insulation resistance

> PRCD test

> Power socket test

Apollo 600+ Key Features:

> On board colour camera with flash

> Store 2,000 images

> Store up to 50,000 appliance records

> Ability to use (2D) QR codes

DESIGNED & BUILT IN GREAT BRITAIN

KEEPING PEOPLE SAFE SINCE 1982

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General Features	
Battery & mains powered	●
Colour screen & keypad	●
Large internal memory	up to 50,000 records and 2,000 photos
Bluetooth® scanner & printer compatible	●
Password controlled user accounts	●
Set up multiple user accounts with varying levels of privileges	●
Clone facility to set up multiple testers	●
Apollo Checkbox supplied as standard	●

Test Inspection Features	
Auto-increment asset ID	●
PAT setup option to allow for custom menus	●
Enter asset description after test using keypad or scanner	●
Comprehensive electrical safety test features	●
Point to point measurement (R_{PE} & I_R)	●
User configurable electrical test/visual inspection sequences	100
User set sites & locations	100
User definable comments lines against test records	4
On-board camera	●

Data Transfer	
Connectivity for compatible scanners	●
Read QR code (2D) labels with scanner	● *
Print pass & fail labels with 1D barcode	● *
Print pass & fail labels with QR code (2D)	● *
Add your company logo to labels (on large 1D labels only)	● *
Select from various label formats to print	6
Download to PC via USB cable	●
Data transfer via USB flash drive	●
Filter results to be downloaded	●
Upload previous results to tester for retest	●

* requires accessory

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Technical Specification:

Earth Continuity (R$_{PE}$)
Output current (load 2 Ω):	±200 mA$_{DC}$ with Zap circuit technology (low current testing with high intensity pulses)
Test voltage (o/c):	> 4 V$_{DC}$
Display range:	0.01 Ω ... 19.99 Ω
Measurement range:	0.05 Ω ... 19.99 Ω
Resolution:	0.01 Ω
Operating error:	±5 % + 4 counts
Number of tests as per IEC 61557-4:	Approx. 1,500 (battery pack operation)

Insulation Resistance (IR)
Test voltages:	500 V / 250 V$_{DC}$ at 1 mA nominal
Test current:	1 mA minimum for a load of 1 kΩ/volt, <2 mA into s/c
Test voltage accuracy:	+20 %, –0 %
Display range:	0.00 MΩ ... 19.99 MΩ
Measurementrange:	0.10 MΩ ... 19.99 MΩ
Resolution:	0.01 MΩ
Operating error:	±5 % +5 counts (0.10 MΩ ... 9.99 MΩ) ±10 % +5 counts (10.00 MΩ ... 19.99 MΩ)
Pass value:	User defined
Number of tests as per IEC 61557-2:	Approx. 1,500. (battery pack operation)

IEC Lead Test
Test voltage:	5 V$_{DC}$ nominal
Test:	Live/neutral checks for o/c, s/c

Protective Conductor Current/Load (Class 1)
Measurement method:	Differential leakage current
Test voltage:	Supply voltage, maximum load current 16 A
Display range:	0.01 mA ... 19.99 mA
Measurement range:	0.25 mA ... 19.99 mA
Resolution:	0.01 mA
Operating error:	±5 % of reading ±3 digits
Pass value:	User defined
Frequency response:	40 Hz ... 2.5 kHz

Touch Current (Class 2)
Measurement method:	Direct leakage current
Test voltage:	Supply voltage, maximum load current 16 A
Display range:	0.00 mA ... 3.5 mA
Measurement range:	0.10 mA ... 3.5 mA
Resolution:	0.01 mA
Operating error:	±5 % of reading ±2 digits
Pass value:	User defined
Frequency response:	DC to 2.5 kHz

Load Power/Current
Test voltage:	Supply voltage, maximum load current 16 A
Test duration:	Programmable up to a maximum of 240 s
Display range:	0.00 A ... 16.00 A (0.00 kVA ... 4.00 kVA)
Measurement range:	0.50 A ... 16.0 A (0.50 kVA ... 4.00 kVA)
Resolution:	0.01 A
Operating error:	±10 % of reading ±5 digits

Substitute (Alternative) Leakage Current
Test voltages:	>25 V$_{AC}$ <50 V$_{AC}$
Display range:	0.00 mA ... 19.99 mA
Measurement range:	0.20 mA ... 19.99 mA
Resolution:	0.01 A
Operating error:	±10 % +2 digits
Pass value:	User defined

PRCD Test
Test method:	Internal isolation to avoid tripping distribution board RCD
Test voltage:	230 V +10 %, –15 %
Test current:	30 mA / 150 mA rms sinusoidal
Test current accuracy:	30 mA –10 % +0 %, 150 mA +10, –0 %
Display range:	0 ms ... 2000 ms
Measurement range:	1 ms ... 2000 ms
Resolution:	1 ms
Operating error:	±1 ms

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Technical Specification:

Power Socket Test
Voltage range: 195 V_{AC} ... 264 V_{AC}
Indicates configuration of voltage potential: Line potential phase to neutral

External Leakage
Test voltage: Connected to external adapter
Display range: 0 mA ... 9.00 mA
Measurement range: 0.25 mA ... 9.00 mA
Resolution: 0.01 mA
Operating error: ±5 % of reading ±2 digits

General
Memory size: up to 50,000 records & 2,000 photos
Weight: 1.5 kg
Dimensions: 230 mm × 150 mm × 100 mm
Protective system: IP40 according to IEC 60529
Power source: Mains or rechargeable battery pack

Environmental Conditions
Pollution degree: 2 according to IEC 60529
Operating temperature: 0 °C ... 40 °C
Operating relative humidity: 30 % ... 50 %, without moisture condensation,
not intended for use in wet environment
Operating altitude: 0 m ... 2000 m
Ambient conditions: Indoor use

Electromagnetic compatibility (EMC)
Interference immunity and emitted interference conforming to IEC 61326-1

Connectivity
Bluetooth®: For connecting peripherals such as scanners and printers
Frequency range 2.400 GHz ... 2.4835 GHz
Transmission intensity 8 dBm EIRP (typical) / <10 dBm EIRP (maximum)
Wi-Fi For data transfer
Standard 802.11 b/g/n
Transmission intensity 18 dBm (typical) / <20 dBm EIRP (maximum)

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What's in the box?

(Supplied as standard with Apollo 600+)

- Apollo 600+ instrument
- Professional carry case
- Test lead 1.2 m with alligator clip, red
- Test lead 1.2 m with alligator clip, black
- IEC extension lead, 0.5 m
- Mains lead
- USB download lead
- Apollo Checkbox
- UKAS calibration certificate
- CE declaration
- Quick Start Guide

Part Numbers:

Instrument

Apollo 600+ (with standard content)	M711B
Apollo 600+ Elite Kit (with standard content and Elite Kit consisting of Test n Tag Elite 2, 2D Elite Scanner, 2 ×Elite Label Roll (52 × 25 mm), 2 × Elite Label Roll (52 × 74 mm), and Apollo Kit Bag)	M711C

Optional Accessories

Test n Tag Elite 2 (Bluetooth® printer)	339A9890
Elite Label Roll (52 × 74 mm) (for Test n Tag Elite 2)	339A9501
Elite Label Roll (52 × 25 mm) (for Test n Tag Elite 2)	339A9500
2D Elite Scanner (Bluetooth®)	339A928
16A 3 Phase Leakage Adaptor 5 Star (for R_{PE} & I_{PE})	391A930
32A 3 Phase Leakage Adaptor 5 Star (R_{PE} & I_{PE})	391A931
Apollo+ Series Test Lead Set (red and black)	380A951
Apollo+ Series Battery	380A019
Apollo+ Series Kit Bag	71G109

PATGuard 3 Software

PATGuard 3 1-Year-Licence	400A927

Download a 30 day free trial of PATGuard 3 at https://gmc-i.link/patguard3

Warranty

2 year warranty (subject to terms and conditions, available at www.seaward.com/waranty24)