



SEAWARD

GMC-INSTRUMENTS GROUP

Apollo 600+

QUICK START GUIDE



Read the complete manual (available at www.seaward.com).
The Quick Start Guide does not replace the complete manual!

seaward.com

TESTED, TRUSTED... WORLDWIDE.

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1. SAFETY INSTRUCTIONS



Read and follow these instructions carefully and completely in order to ensure safe and proper use.

The instructions must be made available to all persons who use the instrument.

Keep for future reference.

General

- The instrument may only be used by electro-technically trained persons (ETP) and qualified electricians in the commercial field. This instrument is not a consumer product.
- Observe and comply with all safety regulations which are applicable for your work environment.
- Wear suitable and appropriate personal protective equipment (PPE) whenever working with the instrument.
- The functioning of active medical devices (for example pacemakers, defibrillators) and passive medical devices may be affected by voltages, currents and electromagnetic fields generated by the tester and the health of their users may be impaired. Implement corresponding protective measures in consultation with the manufacturer of the medical device and your physician. If any potential risk cannot be ruled out, do not use the instrument.

Accessories

- Use only the specified accessories (included in the scope of delivery or listed as options) with the instrument.
- Carefully and completely read and adhere to the product documentation for optional accessories. Retain these documents for future reference.

Handling

- Use the instrument in undamaged condition only.
Inspect the instrument before use. Pay particular attention to damage, interrupted insulation or kinked cables.
Damaged components must be replaced immediately.
- Use the accessories and all cables in undamaged condition only.
Inspect accessories and all cables before use. Pay particular attention to damage, interrupted insulation or kinked cables.
- If the instrument or its accessories don't function flawlessly, permanently remove the instrument/accessories from operation and secure them against inadvertent use.
- If the instrument or accessories are damaged during use, for example if they're dropped, permanently remove the instrument/accessories from operation and secure them against inadvertent use.
- If there are any signs of interior damage to the instrument or accessories (e.g. loose parts in the housing), permanently remove the instrument/accessories from operation and secure them against inadvertent use.
- Instruments and accessories from Seaward Electronic Ltd. are designed to work optimally with the Seaward Electronic Ltd. products expressly intended for this purpose. Unless otherwise expressly confirmed in writing by Seaward Electronic Ltd., they are not intended or suitable for use with other products.
- Route cables in an orderly fashion, e.g. the mains power cable and accessories cable. Loose, disorderly cables result in unnecessary danger of tripping and falling.

Measurements/Tests

- The integrated voltage measuring function must only be used as follows:
 - European Union:
The integrated voltage measuring function and mains check of the test/measuring instrument may not be used to test systems or system components for the absence of voltage.
Testing for the absence of voltage is only permissible with a suitable (2-pole) voltage tester / voltage measuring system which fulfills the requirements specified in EN 61243-3.
 - United Kingdom:
If the instrument is being used to determine the presence or absence of hazardous voltages, always prove the operation of voltage measurement function before and after use by means of a known voltage source or proving unit.
- Always ensure that the circuit or appliance under test is electrically isolated.
- The instrument may apply a test voltage or mains power to the appliance under test. Do not touch the appliance while tests/measurements are active.

Operating Conditions

- Do not use the instrument and its accessories after long periods of storage under unfavorable conditions (e.g. humidity, dust or extreme temperature).
- Do not use the instrument and its accessories after extraordinary stressing due to transport.
- Do not expose the instrument to direct sunlight for longer periods of time. Overheating may cause damage to the instrument.
- Only use the instrument and its accessories within the limits of the specified technical data and conditions (ambient conditions, IP protection code, measuring category etc.).
- Do not use the instrument in potentially explosive atmospheres. Danger of explosion!
- Do not use the instrument in atmospheres subject to fire hazard. Danger of fire!
- Implement adequate measures for protection against electrostatic discharge (ESD).

Instrument-Internal Rechargeable Battery

- Use rechargeable batteries in undamaged condition only. Risk of explosion and fire in the case of damaged rechargeable batteries!
Inspect the rechargeable batteries before use. Pay particular attention to leaky and damaged rechargeable batteries.
- When using rechargeable batteries, the instrument may only be used with inserted and secured battery compartment lid. Otherwise, dangerous voltages may occur at the rechargeable battery contacts under certain circumstances.
- Only charge undamaged rechargeable batteries. Risk of explosion and fire in the case of damaged rechargeable batteries!
Inspect the rechargeable batteries before charging. Pay particular attention to leaky and damaged rechargeable batteries.

Measurement Cables and Establishing Contact

- Plugging in the measurement cables must not necessitate any undue force.
- Never touch conductive ends (for example of test probes).
- Avoid short circuits due to incorrectly connected measurement cables.
- Ensure that alligator clips and test probes make good contact.
- Do not move or remove test probes and alligator clips until testing/measurement has been completed.

-
- Only use original accessories and/or the measurement cables and test probes which are part of the scope of delivery.

Calibration

- Comply with national calibration regulations and laws.
- Calibrations must be carried out by authorized service departments.

Emissions

- The instrument is equipped with a Bluetooth® module. Make sure that the frequency band from 2400 MHz to 2483.5 MHz may be used in your country.

Data Security

- Always create a backup copy of your measurement/test data.
- The instrument is equipped with a data memory to which personal and/or sensitive data can be stored. Observe and comply with the applicable national data protection regulations. Use the corresponding functions provided by the test instrument (such as access protection), as well as other appropriate measures to prevent unauthorized access to the data.

2. APPLICATION

Please read this important information!

2.1 Intended Use / Use for Intended Purpose

The instrument is designed for the purpose of performing specific electrical tests on portable appliances.

The instrument can be used to perform the measurements described in this Quick Start Guide and the instrument's manual.

Safety of the user, as well as that of the instrument, is only assured when it's used for its intended purpose.

2.2 Use for Other than Intended Purpose

Using the instrument for any purposes other than those described in this Quick Start Guide or the manual of the instrument is contrary to use for intended purpose. Use for other than intended purpose may lead to unpredictable damage!

2.3 Repairs and Modifications

Unauthorized modification of the product is prohibited. Only authorized, trained personnel is permitted to perform repairs. Refer to the instrument's manual for information concerning repairs.

2.4 Liability and Guarantee

The warranty provided by Seaward Electronic Ltd, and its liability, are governed by the applicable contractual and mandatory statutory provisions.

Register your instrument now

To activate your 2 year warranty please register your product at seaward.com/register

3. DOCUMENTATION

3.1 Information Concerning these Instructions

The Quick Start Guide does not replace the complete manual!
Read the complete operating instructions (available at www.seaward.com).
Read these instructions attentively and carefully. They contain all necessary information for safe use of the instrument. Comply with them in order to protect yourself and others from injury, and to avoid damaging the instrument.
The latest version of these instructions is available on our website:
<https://www.seaward.com/gb/support/>

Trademark Law

Product designations used in this document may be subject to brand law and patent law. They are of the property of their respective owner.

Copyright

All rights reserved.
Nothing from this edition may be multiplied, or made public in any form or manner, either electronically, mechanically, by photocopying, recording, or in any manner, without prior written consent from Seaward Electronic Ltd. This also applies to accompanying drawings and diagrams.
Due to a policy of continuous development Seaward Electronic Ltd reserves the right to alter the equipment specification and description outlined in this publication without prior notice and no part of this publication shall be deemed to be part of any contract for the equipment unless specifically referred to as an inclusion within such contract.

3.2 Identification of Warnings

Instructions for your safety and for the protection of the instrument and its environment are provided as warnings and notes at certain points within these instructions.
They're laid out as shown below and are graded in terms of the severity of the respective hazard. They also describe the nature and cause of the hazard, the consequences of non-observance and what must be done to avoid it.



DANGER
Death or serious injury is almost certain.



WARNING
Death or serious injury is possible.



CAUTION
Minor or moderate injury possible.

ATTENTION
Damage to the product or the environment.



Note

Important information.



Tip

Useful additional information or application tip.

3.3 Identifiers

The following identifiers are used in this documentation:

Identifier	Meaning
Control Element	Keys, buttons, menus and other controls
✓ Prerequisite	A condition etc. which must be fulfilled before a given action can be taken
1. Procedural step	Steps of a procedure which must be completed in the specified order
↪ Result	Result of a procedural step
• Enumeration • Enumeration	Bullet lists

3.4 Symbols in the documentation

The following icons are used in this documentation:

Icon	Meaning
	Read and adhere to the product documentation.
	General warning symbol.
	Warning regarding electrical voltage.

3.5 Definition of terms

Term	Definition
Instrument	Apollo 600+
EUT	Equipment under test

4. GETTING STARTED

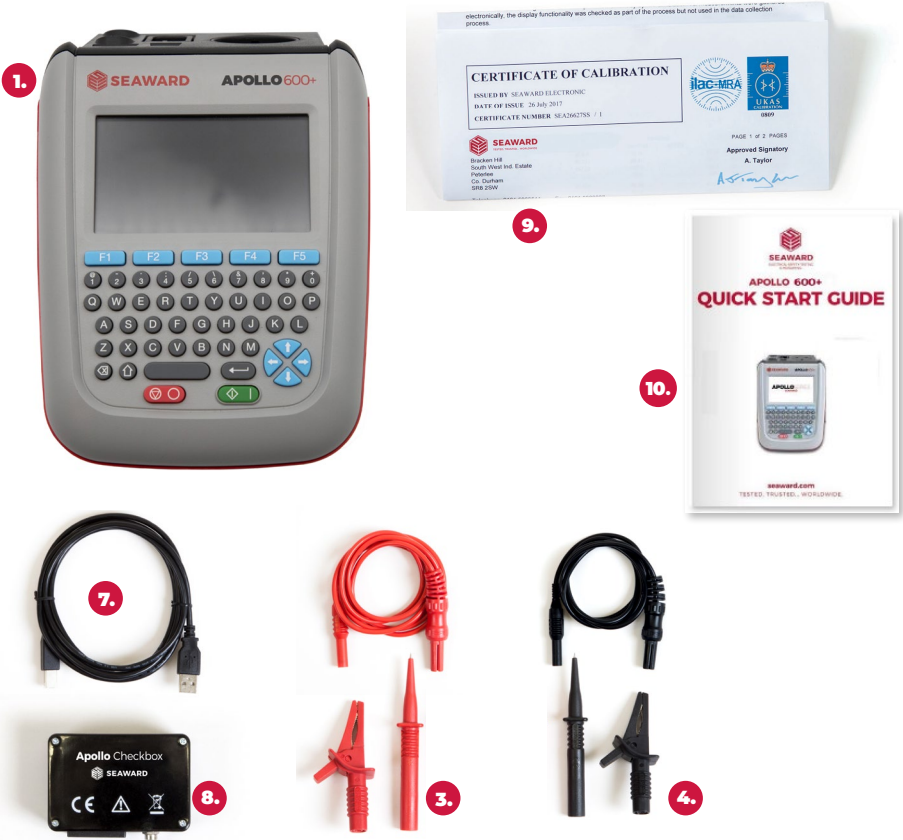
This chapter gives you an overview of the initial steps with the instrument.

1. Read and adhere to the product documentation. In particular, observe all safety information in the documentation, on the instrument and on the packaging.
 - Safety Instructions on page 3.
 - Application on page 6.
 - Documentation on page 6.
2. Familiarize yourself with the instrument on page 9.
3. Start up the instrument on page 14.
4. Familiarize yourself with the instrument's operation on page 9.
5. Configure the instrument on page 15.
6. Perform measurements/tests on page 19

5. THE INSTRUMENT

5.1 Scope of Delivery

Please check the scope of delivery for completeness and intactness.



1. Apollo 600+ instrument × 1
2. Professional carry case × 1, not pictured
3. Test lead 1.2 m with alligator clip, red × 1
4. Test lead 1.2m with alligator clip, black × 1
5. IEC extension lead, 0.5 m × 1, not pictured
6. Mains lead × 1, not pictured
7. USB download lead × 1
8. Apollo Checkbox × 1
9. UKAS calibration certificate × 1
10. Quick Start Guide × 1
11. CE declaration × 1, not pictured

5.2 Optional Accessories

Some measurements necessitate optional accessories (selection):

Test n Tag Elite 2 (Bluetooth® printer)
2D Elite Scanner (Bluetooth®)
16A 3 Phase Leakage Adaptor 5 Star (for R_{PE} & I_{PE})
32A 3 Phase Leakage Adaptor 5 Star (for R_{PE} & I_{PE})
For more information see data sheet.

339A9890
339A928
391A930
391A931

5.3 Device Overview



- 1. Test terminals
- 2. Screen
- 3. Function keys F1 ... F5
- 4. Keyboard
- 5. Power off / Stop key
- 6. Power on / Start key
- 7. Arrow keys
- 8. EUT socket
- 9. IEC inlet
- 10. Probe socket 1
- 11. Mains inlet / Probe socket 2
- 12. USB B port for PC connection
- 13. USB flash drive port
- 14. Flash
- 15. Camera
- 16. Battery compartment

5.4 Symbols on the Instrument and the Included Accessories

Icon	Meaning	Icon	Meaning
	Warning concerning a point of danger (Attention, observe documentation!)		The instrument may not be disposed of with household trash. See “Disposal and Environmental Protection” on page 22.
	Warning regarding dangerous electrical voltage		European conformity marking

5.5 Relevant Standards

The instrument has been manufactured in accordance with the following safety regulations

BS EN 61010-1	Safety requirements for electrical equipment for measurement, control, and laboratory use. General requirements
BS EN 61010-2-030	Safety requirements for electrical equipment for measurement, control, and laboratory use - Particular requirements for equipment having testing or measuring circuits
BS EN 61557 parts 1, 2, 4 and 10	Electrical safety in low voltage distribution systems up to 1000 V AC and 1500 V DC - Equipment for testing, measuring or monitoring of protective measures. Resistance of earth connection and equipotential bonding

5.6 Technical Specification

General

Dimensions W × H × L	150 × 100 × 230 mm
Weight	1.5 kg
Internal memory	Up to 50,000 records and 2,000 photos
Protective system	IP40 according to IEC 60529
Power supply	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

Wi-Fi and Bluetooth dual-mode (BR/EDR and low energy)

Parameter	Wi-Fi	Bluetooth (BR/EDR)	Bluetooth (Low Energy)
Frequency Band of Operation	2.400 GHz ... 2.4835 GHz		
Supported Modes	802.11 b/g/n	Bluetooth v4.2 + EDR	Bluetooth v4.2
Typical Radiated Output (Transmit) Power	18 dBm EIRP	8 dBm EIRP	8 dBm EIRP
Maximum Radiated Output (Transmit) Power	<20 dBm EIRP	<10 dBm EIRP	<10 dBm EIRP
Radio Spectrum Efficiency (Article 3.2)	ETSI EN 300 328 V2.2.2		
Usage	Transfer of test data	Connection to peripherals such as scanners and printers	

Earth Continuity (R_{PE})

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

Insulation Test (IR)

Test voltages:	500 V and 250 V_{DC} at 1 mA nominal
Test current:	1 mA minimum for a load of 1 k Ω /volt, <2 mA into s/c
Test voltage accuracy:	+20 %, -0 %

Display range:	0.00 MΩ ... 19.99 MΩ
Measurement range:	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 ... 16.00 A (0.00 kVA ... 4.00 kVA)
Measurement range:	0.50 ... 16.00 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 mA
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

Power Socket Test

Input 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

6. START UP

Before using your instrument for the first time, please ensure that you fully charge the instrument using the mains lead plugged into the mains inlet.



Switching on/off

Switch on the instrument by pressing and holding, the green **Power on/Start** key. After 2...3 seconds the instrument will beep and the display will show a boot up screen.



This is the **Power On /Start** button.

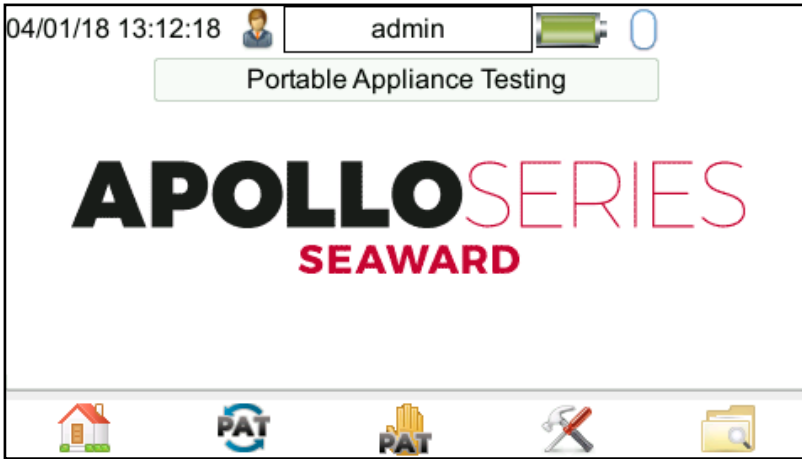


This is the **Power Off /Stop** button

7. OPERATION

7.1 User Options (PAT Settings)

PAT settings are used to setup standard user preferences, such as the options after each test.



User options can be accessed from the **Home** screen  by selecting **PAT** (F1) for the **PAT** window and then selecting the **Tools** function  (F4).

User options consist of three pages, which can be accessed using  (F3):

Page 1 allows the asset ID, start increment, on test fail, after test, leakage result, earth result, earth reverse and substitute leakage factor parameters to be changed.

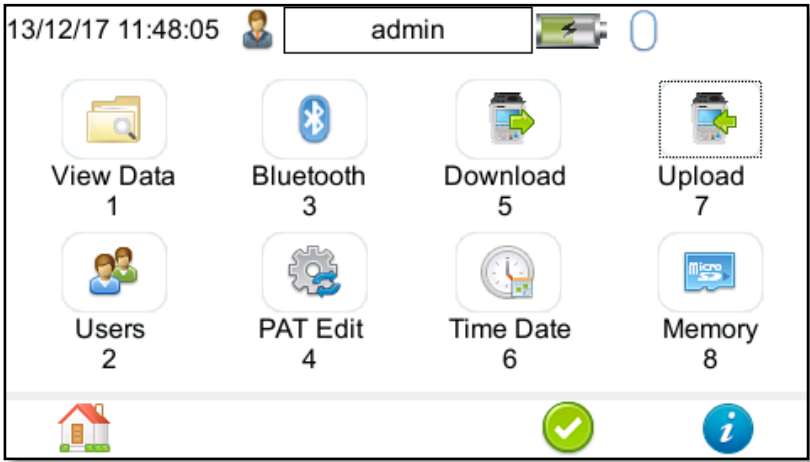
Page 2 allows the comments, new comments, Apollo Checkbox interval and comment lines to be setup.

Page 3 can be used to delete single items from the defaults lists; site list, location list, comments: description, comments: make, comments: model, comments: asset group, comments: manufacturer, custom test: test name, custom test: test units and custom test: test results

Use (F2) to delete the selection as required.

7.2 Main Menu Window – Navigation

The Main menu window can be accessed from the **Home** screen  by selecting **(F4)**.

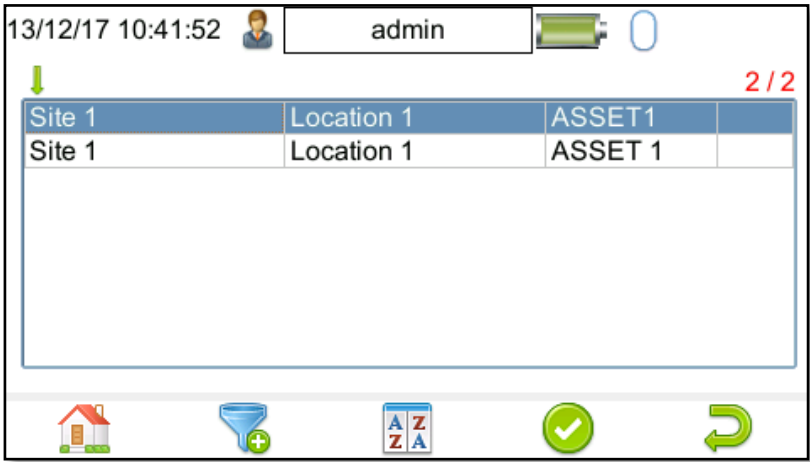


There are 8 available options, in the **Main Menu** window.

7.3 Main Menu Window – View Data

This will allow you to view any data that you have saved in the instrument. By selecting **View Data**  (1) in the **Main Menu**, you can view a list of all saved assets by site, location or asset ID.

The functions keys in the **View Data** window correspond to the following:



Use **F1** to return to the **Home** screen.



Use **F2** to filter records to give a customised view. Select the filters you wish to apply, using the arrow keys on the keyboard, and press **F4** to accept or cancel / return using **F5**.



Use **F3** to sort the records by site, location or Asset ID to give a customised view. If the left or right arrow keys are selected, in this window, the display will jump up or down to the next page respectively.



F4 is the accept function. This will open the selected record to view any corresponding results, such as PAT results or photographs etc. Individual items can be deleted using the arrow keys to select and the delete function **F3**.



Use **F5** to return to the **Main Menu**.

7.4 Main Menu Window – User Setup



By selecting **Users (F2)**, in the **Main Menu**, you can setup new, edit and delete user accounts. Users can alter their own screen power save time, auto power down, background image, avatar and power on screen.



Use this button (**F2**) to select a new user. Select the user name, from the dropdown and enter the correct password to change the current user of the tester.



Use this button (**F2** in the **Select a New User** window) to change password for the current user. Enter the existing password, enter a new password and then confirm new password.



This **User Privileges** menu (**F3**) allows users to view their current privileges. If they have edit users rights, they will also be able to edit their own and other users privileges by selecting the user they wish to edit from the dropdown.



This is the **New User** button (**F1** in **User Privileges** menu). A new user can be setup by adding a user name and password and selecting **Save (F3)**. The new user can then be selected in the **Username** field of the **User Privileges** screen. Select the type of user (**Expert** or **Novice**), privileges can be setup by using the enter key to check or uncheck, if a privilege is checked, the user has access to that feature or function. To block a feature or function, for example adjusting the time/date, uncheck that function before saving (**F3**).

(Items not selected or left unchecked (for example adjusting the time/date) will be greyed out in certain menus of the instrument.)



This is the **Delete User** button. It will delete whichever user is currently selected in the **Username** dropdown.
(The admin user cannot be deleted.)



Press this button to save changes and return to the previous screen.



This is the **Copy User** function. This will copy the settings and preferences of the current user to a new user account.

7.5 Main Menu Window – Connecting Bluetooth® devices

The instrument can be connected to Bluetooth® accessories such as barcode scanners and printers; see “Optional Accessories” on page 10.

How to connect and set up the accessories is described in their product documentation. For usage with the instrument see its User Manual.

8. PERFORMING AN ELECTRICAL SAFETY TEST – AUTO MODE

This document gives a basic overview. For detailed test descriptions and manual mode, see the User Manual.

1. From the **Home** screen select **PAT** (F1) to enter the **Portable Appliance Testing** screen.
2. Select **Auto mode** by pressing **PAT** (F2).
3. Enter the Asset ID number of the appliance to be tested using the keypad, barcode scanner or QR code scanner.
4. Select the appropriate **Test Sequence** from the dropdown menu using the arrow keys or by pressing the appropriate letter.
5. Enter the **Site** and **Location** information using either the keypad or barcode scanner, and select the appropriate Retest Periods.
6. Press **Accept** (F4) to move on to the test and inspection sequence and follow through the on screen instructions.
7. Once the test is complete you will have the opportunity to enter additional information on the comment text lines. The instrument has up to four lines.
8. Select **F4** to save the record.

21/12/17 12:50:41 admin 0

Asset ID	0001	
Test Sequence	D) Fixed Appliance CLII	
Site	Site 1	
Location	Location 1	
Retest Period (Visual)	6	months
Retest Period (Full)	12	months

15

9. SOFTWARE DOWNLOAD

Please download the supporting PATGuard 3 software:

<https://gmc-i.link/patguard3>

10. SERVICE AND CONTACT

GERMANY:

GMC-I Service GmbH

Beuthener Straße 41
90471 Nürnberg
Deutschland



+49 911 817718-0



service@gossenmetrawatt.com

For information on service or calibration visit:

gmci-service.com/en

REST OF WORLD:

Calibrationhouse (UK)

11 Bracken Hill,
South West Industrial Estate
Peterlee, County Durham
SR8 2LS



+44 (0) 191 587 8737



service@calibrationhouse.com

For information on service or calibration visit:

calibrationhouse.com

11. CERTIFICATIONS

11.1 CE Declaration

The instrument fulfills all requirements of applicable EU directives and national regulations. We confirm this with the CE mark.



CE DECLARATION OF CONFORMITY 380A949 APOLLO 600+ SCHUKO ASSEMBLED INSTRUMENT

Manufacturer: Seaward Electronic Ltd
15/18 Bracken Hill
South West Industrial Estate
Peterlee
County Durham
SR8 2SW

The object of the declaration described above is in conformity with the relevant Union harmonisation legislations 2014/53/EU and 2011/65/EU.

Safety	EN61010-1:2019
Safety	EN61010-2-030:2021
Safety	EN61557-1,2,4,6: 2007
	EN61557-10: 2013
EMC	EN IEC 61326-1:2013
Radio Spectrum	EN300 328 V2.2.2:2019

Date of Issue	2024-12-17
Signature	 Nick Maltby (Engineering Manager)

11.2 Calibration Statement and Certificate

The instrument is fully calibrated and found to be within the specified performance and accuracy at the time of production. The Seaward Group provides its products through a variety of channels; therefore it may be possible that the calibration date on the provided certificate may not represent the actual date of first use.

Experience has indicated that the calibration of this instrument is not affected by storage prior to receipt by the user. We therefore recommend that the recalibration period be based on a 12 month interval from the first date the unit is placed in to service.

Please contact us for calibration services, see "10. Service and Contact" on page 20.

12. DISPOSAL AND ENVIRONMENTAL PROTECTION

Proper disposal makes an important contribution to the protection of our environment and the conservation of natural resources.

ATTENTION

Environmental Damage

Improper disposal results in environmental damage.

- Observe the information in this section.
-

12.1 Disposal of Old Devices, Batteries and Rechargeable Batteries

Old devices and (rechargeable) batteries contain valuable raw materials that can be recycled, as well as hazardous substances which can cause serious harm to human health and the environment, and they must be recycled and disposed of correctly.

The symbol depicting a crossed-out garbage can on wheels refers to the legal obligation of the owner or end-user not to dispose of old devices and batteries or rechargeable batteries with unsorted municipal waste ("household trash"). The (rechargeable) batteries must be removed from the old device (where possible) without destroying them and the old device and the (rechargeable) batteries must be disposed of separately. The type and chemical composition of the (rechargeable) battery are indicated on the battery's labelling. If the abbreviations "Pb" for lead, "Cd" for cadmium or "Hg" for mercury are included, the (rechargeable) battery exceeds the limit value for the respective metal.

You are obliged to comply with respective local requirements and implement them correctly on site. Further information can be obtained, for example, from the responsible authorities or the local distributor.

Please also observe the owner's or end user's responsibility with regard to deleting personal data, as well as any other sensitive data, from old devices before disposal.

12.2 Disposal of Packaging Materials

Packaging and its parts must be correctly disposed of separately from unsorted municipal waste ("household trash").

You are obliged to comply with respective local requirements and implement them correctly on site. Further information can be obtained, for example, from the responsible authorities or the local distributor.

We recommend retaining the original packaging materials in case you might require servicing or calibration in the future.



WARNING

Danger of Asphyxiation Resulting from Foils and Other Packaging Materials

Children and other vulnerable persons may suffocate if they wrap themselves in packaging materials, or their components or foils, or if they pull them over their heads or swallow them.

- Keep packaging materials, as well as their components and foils, out of the reach of babies, children and other vulnerable persons.

12.3 Regulations for the Federal Republic of Germany

The following comments refer specifically to the legal situation in the Federal Republic of Germany.

Old devices, electrical or electronic accessories and batteries or rechargeable batteries

Old devices, electrical or electronic accessories, batteries and rechargeable batteries used in Germany can be returned free of charge to Gossen Metrawatt GmbH or the service provider responsible for their disposal in compliance with applicable regulations, in particular laws concerning packaging and hazardous goods. Batteries and rechargeable batteries must be returned in the discharged state or with appropriate precautions against short circuiting. Further information regarding returns can be found on our website.

Packaging Materials

Packaging which is not subject to so-called system participation is returned to the appointed service provider. Further information regarding returns can be found on our website.



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