SEAWARD

ELECTRICAL SAFETY TESTING
& MEASURING.

APOLLO 600+

QUICK START GUIDE

To ensure safe and proper use of the instrument, read and follow the instructions in the related user manual.
The user manual can be downloaded from our website
https://www.gossenmetrawatt.de/en/service-support/download-center/

seaward.com

TESTED, TRUSTED... WORLDWIDE.

IMPORTANT SAFETY INSTRUCTIONS

The instrument has been built and tested in accordance with:
BS EN 61010-1, BS EN 61010-2-030, andBS EN 61557 parts 1, 2, 4 and 10.

	Read and follow these instructions carefully and completelyin 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 device 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.

IMPORTANT SAFETY INSTRUCTIONS

- 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 device.
- 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).

IMPORTANT SAFETY INSTRUCTIONS

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.

IMPORTANT INFORMATION

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 manual, which must not exceed the electrical specifications in the chapter “Technical Data” on page 20.
Safety of the operator, as well as that of the instrument, is only assured when it is used for its intended purpose.

Use for Other than Intended Purpose
Using the instrument for any purposes other than those described in this Quick Start Guide, or the manual, is contrary to use for intended purpose.

Liability and Guarantee
Seaward Electronic Limited assumes no liability for property damage, personal injury or consequential loss resulting from improper or incorrect use of the product, in particular due to failure to observe the product documentation. Furthermore, all guarantee claims are rendered null and void in such cases.
Nor does Seaward Electronic Limited accept any liability for data loss.

Opening the Instrument / Repairs
The instrument may only be opened by authorised, trained personnel in order to ensure flawless, safe operation and to assure that the guarantee is not rendered null and void. Even original replacement parts may only be installed by authorised, trained personnel.
When the instrument is opened, voltage conducting parts may be exposed. The instrument must be switched off and disconnected from the measuring circuit before performing repairs or replacing parts (including the battery and fuses).
Unauthorised modification of the instrument is prohibited.
If it can be ascertained that the instrument has been opened by unauthorised personnel, no guarantee claims can be honoured by the manufacturer with regard to personal safety, measuring accuracy, compliance with safety measures or any consequential damages.
If a guarantee seal is included and it has been damaged or removed, all guarantee claims are rendered null and void.
For repair, please see details in section ‘Service and Calibration’.

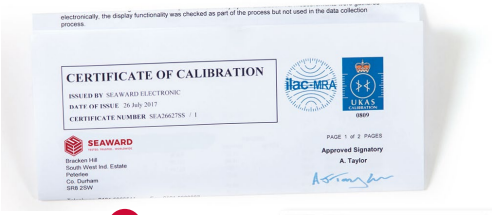
GETTING TO KNOW YOUR INSTRUMENT

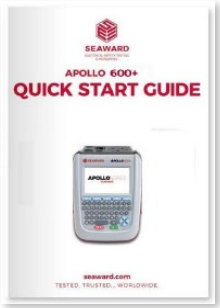
1. Test Terminals
2. Screen
3. Function Keys F1 - F5
4. Keyboard
5. Power Off / Stop Key
6. Power On / Start Key
7. Arrow Keys
8. EUT Socket
9. IEC Inlet
10. Probe Socket 1
11. Mains Inlet / Probe Socket 2
12. USB B Port for PC Connection
13. USB Flash Drive Port for Data Backup
14. Flash
15. Camera
16. Battery Compartment

GETTING TO KNOW YOUR INSTRUMENT

	Warning concerning a point of danger (attention, observe documentation)!
	Warning regarding electrical voltage
	European conformity marking
	The instrument may not be disposed of with household trash

WHAT'S IN THE BOX?





1.	Apollo 600+ Instrument	**× 1**
2.	Professional Carry Case	**× 1, not pictured**
3.	Test Lead 1.2m with Alligator Clip, Red	**× 1**
4.	Test Lead 1.2m with Alligator Clip, Black	**× 1**
5.	IEC Extension Lead, 0.5m	**× 1, not pictured**
6.	Mains Lead	**× 1, not pictured**
7.	USB Download Lead	**× 1**
8.	Apollo Checkbox	**× 1**
9.	Calibration Certificate	**× 1**
10.	Quick Start Guide	**× 1**
11.	CE declaration	**× 1, not pictured**

BEFORE YOU START

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

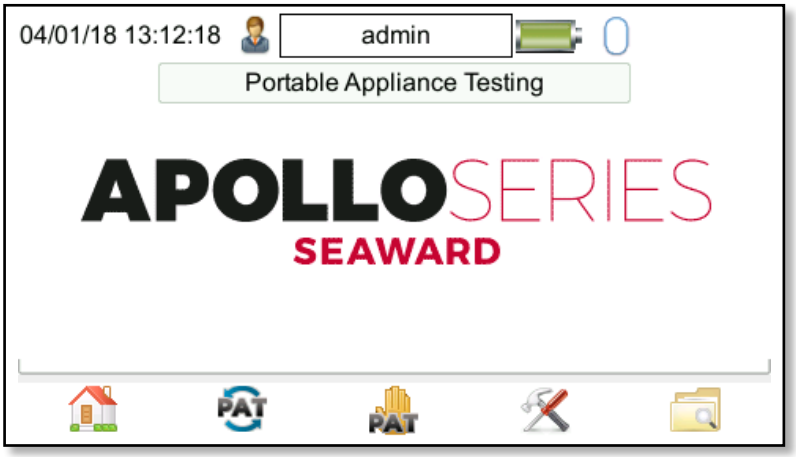
Switch on the instrument by pressing and holding, the green ON / START key. After 2-3 seconds the instrument will beep and the display will show a boot up screen.

This is the Power ON button.

This is the Power OFF button

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 (F1) for the Portable Appliance Testing window and then selecting the Tools function (F4).

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

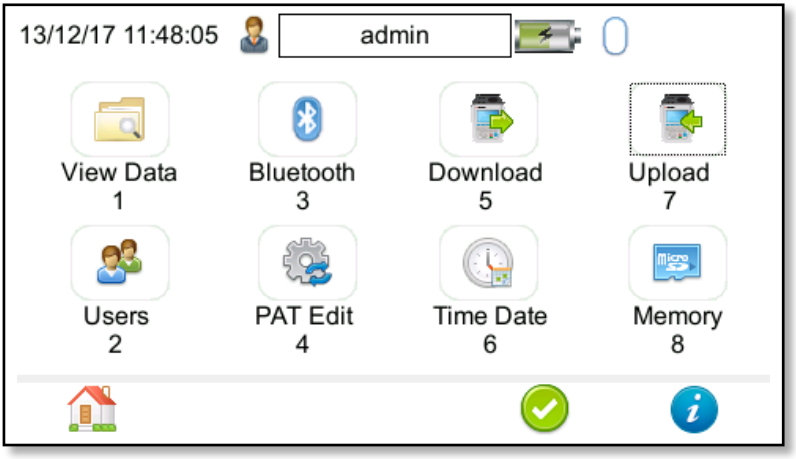
Page 1 allows the Asset ID, Start Increment, On Test Fail, After Test, Leakage Result, Earth Result, Earth Reverse and Substitute Leakage Factor parameters to be changed.

Page 2 allows the Comments, New Comments, 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.

MAIN MENU WINDOW - NAVIGATION

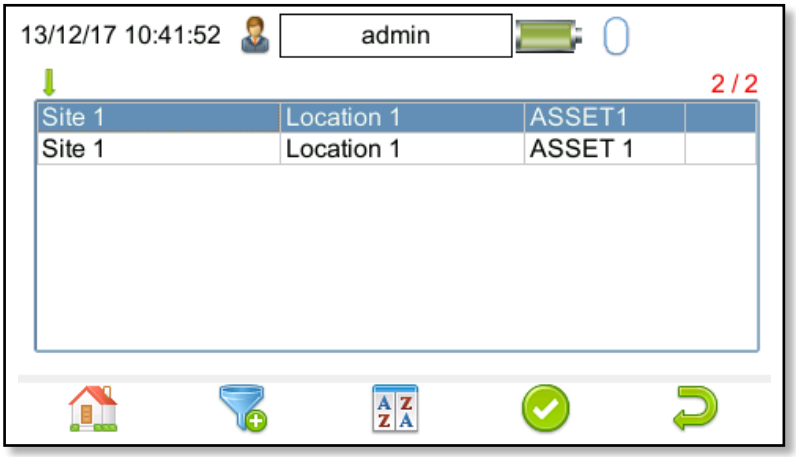
The Menu window can be accessed from the Home screen by selecting (F4).



There are 8 available options, in the Menu window.

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.

MAIN MENU WINDOW – USER SETUP

By selecting Users (2), 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 Username 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). **Note:** that 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. **Note:** that the admin user cannot be deleted.

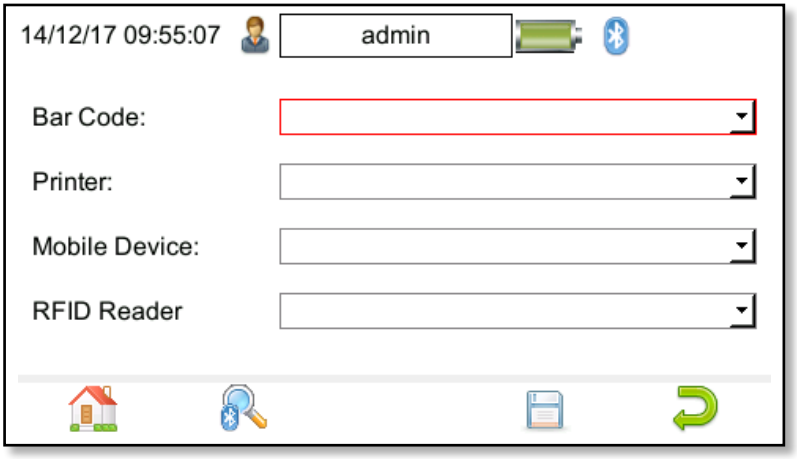
Press this button to Save changes and return to the previous screen.

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

MAIN MENU WINDOW – CONNECTING BLUETOOTH DEVICES

The instrument can be connected to Bluetooth accessories including barcode scanners, printers, smart phones and RFID scanners.

1. From the Home screen press the Menu key (F4) then press key number 3 to open the Bluetooth screen.
2. With the Bluetooth Device switched on, press F2 to search for Bluetooth devices. Bluetooth devices are listed as they are found.
3. Select Bar Code field and choose your scanner from the list using the arrow keys.
4. Select Printer field and choose your printer from the list using the arrow keys.
5. Select Mobile Device field and choose your device from the list using the arrow keys.
6. Select RFID Reader field and choose your device from the list using the arrow keys.
7. Press F4 to save.



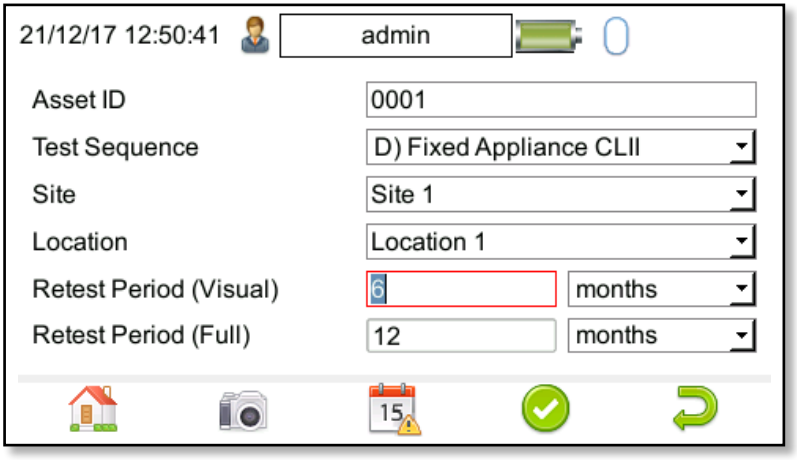
MAIN MENU WINDOW – PRINTER SETUP

Note: You will require test data to be already stored on the instrument and the printer to be stored as a Bluetooth favourite before you attempt the following steps.

1. Select View Data, by selecting number 1.
2. Select an asset using the arrow keys and function key F4.
3. Select a full test result (PAT_Results) using F4 again to display the Test Details for the asset.
4. Select Menu / Options, function key F4, to display the Test Results Option.
5. Highlight and select Print Label using the arrow keys and function key F4, a virtual image of the current label is shown on the instrument.
6. To setup the printer that was paired in the earlier steps use the tools function key F2.
7. Using the arrow keys to highlight the bottom line Printer and, from the dropdown, select the Bluetooth printer paired earlier. **Note:** This will add / remove fields depending upon the selection made
8. Using the arrow keys, select the various options applicable with the printer / instrument.
9. Finally, save these settings by using function key F3.
10. A virtual label image will be displayed, which may show a Company Logo or QR code depending upon previous selections (and instrument), and is now ready to be printed. Alternative versions of the label can be selected using the function key F3.

PERFORMING AN ELECTRICAL SAFETY TEST – AUTO MODE

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.



SOFTWARE DOWNLOAD

Please download the supporting PATGuard 3 software: https://gmc-i.link/patguard3

TECHNICAL DATA

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 according to IEC60529	IP40
Power supply	Mains or instrument-internal rechargeable battery
Measuring category	300 V / CAT II

Environmental Conditions

The Apollo has been designed to perform tests and measurements in a dry environment.

Maximum barometric elevation	2000 m
Pollution degree according to IEC 60529	2
Operating temperature	0 ... 40 ° C
Operating relative humidity	30 % ... 50 %, without moisture condensation
Ambient conditions	Indoor use Not intended for use in wet environment

Electromagnetic compatibility (EMC)

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

TECHNICAL DATA

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	

Characteristic Values

Protective Conuctor Resistance (Rpe)

Output Current (Load 2 Ω)	±200 mA_{DC} with ZAP
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 (in case of battery operation)::	approx. 1,500

Insulation Test (Riso)

Nominal Voltages:	500 V and 250 V_{DC}
Test Current:	1 mA minimum for a load of 1 kOhm/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 to 9.99 MΩ) ±10 % +5 counts (10.00 MΩ to 19.99 MΩ)
Number of tests as per IEC 61557-2 (in case of battery operation):	approx. 1,500.

TECHNICAL DATA

Substitute (Alternative) Leakage Test

Nominal Voltages:	>25 VAC <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

Protective Conductor Current (IPE)

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
Frequency Response:	40 Hz to 2.5 kHz

Touch Current (IT)

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
Frequency Range:	DC to 2.5 kHz

Load Current Measurement

Test Voltage:	Supply Voltage, maximum load current 16 A
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

Continuity (Lead Test)

Test Voltage:	5 V_{DC} nominal
Test:	Live / Neutral checks for o/c, s/c

TECHNICAL DATA

Power Socket Test

Input voltage range:	195 V ... 253 V_{AC} Testing of voltage potential: - U (L-PE) - U (N-PE) - U (L-N) Displayed measured value: U (L-N)

RCD Test

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

External Leakage Current (Adapter 3~)

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

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. · Follow the instructions concerning return and disposal included in this section.

We recommend retaining the respective packaging materials for the case that 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.

Please 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.

DISPOSAL AND ENVIRONMENTAL PROTECTION

Federal Republic of Germany:

The following comments refer specifically to the legal situation in the Federal Republic of Germany. Further information can be obtained, for example, from the responsible authorities or the local distributor.

Waste Electrical Equipment, Electrical or Electronic Accessories and Waste Batteries (including rechargeable batteries)

Electrical equipment and batteries (including 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 at the left depicting a crossed-out garbage can on wheels refers to the legal obligation of the owner or end user (German electrical and electronic equipment act ElektroG and German battery act BattG) not to dispose of used electrical equipment and batteries with unsorted municipal waste (“household trash”). Waste batteries must be removed from the old device (where possible) without destroying them and the old device and the waste batteries must be disposed of separately. The battery type and its chemical composition are indicated on the battery’s labelling. If the abbreviations “Pb” for lead, “Cd” for cadmium or “Hg” for mercury are included, the battery exceeds the limit value for the respective metal.

Old devices, electrical or electronic accessories and waste batteries (including 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. Waste batteries must be handedover in discharged state and/or with appropriate precautionary measures against short-circuiting. Further information regarding returns can be found on our website.

Packaging Materials

In accordance with German packaging law (VerpackG), the user is obligated to correctly dispose of packaging and its components separately, and not together with unsorted municipal waste (“household trash”).
Packaging which is not subject to so-called system participation is returned to the appointed service provider. Further information regarding returns can be found under https://www.gossenmetrawatt.de/en/about-us/company/product-returns/.

Rest Of World:

Comply with the respective local requirements for disposal and implement them correctly on site.
Further information can be obtained, for example, from the responsible authorities or the local distributor.

SERVICE AND CALIBRATION

To maintain the specified accuracy of the measurement results, the instrument must be recalibrated at regular intervals by either the manufacturer or an authorised Seaward Service Agent. We recommend a recalibration period of one year.
Should the instrument become faulty please secure the instrument so that it can no longer be used. Ship the instrument back to a Seaward authorised dealer.
For help or advice on Service and Calibration contact:

Federal Republic of Germany
GMC-I Service GmbH
Beuthener Straße 41
90471 Nürnberg
Deutschlang

Phone: +49 911 817718-0
Email: service@gossenmetrawatt.com
www.gmci-service.com

Rest of World
Seaward Electronics Ltd
Bracken Hill
SW Industrial Estate
Peterlee
County Durham
SR8 3JT

Phone: +44 191 586 3511
Email: service@calibrationhouse.com
www.seaward.com

Calibration Statement
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.
For information on service or calibration please go to:
Federal Republic of Germany: https://www.gmci-service.com/en/
Rest of World: https://www.seaward.com/gb/

REGULATORY INFORMATION

CE Declaration

SEAWARD
GMC-INSTRUMENTS GROUP

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: N Maltby

Nick Maltby (Engineering Manager)

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REGULATORY INFORMATION

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EU Importer
Gossen Metrawatt GmbH
Südwestpark 15, 90449 Nürnberg, Germany.

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