



# rotronic AWEY 2AG4J-AWEY AwEasy Water Activity Devices Instruction Manual

[Home](#) » [ROTRONIC](#) » rotronic AWEY 2AG4J-AWEY AwEasy Water Activity Devices Instruction Manual 

## Contents

- [1 rotronic AWEY 2AG4J-AWEY AwEasy Water Activity Devices](#)
- [2 GENERAL DESCRIPTION](#)
- [3 MEASUREMENT ARRANGEMENT](#)
- [4 STARTING THE APP](#)
- [5 STARTING THE MEASUREMENT](#)
- [6 STANDALONE MODE](#)
- [7 GENERAL GUIDELINES](#)
- [8 TECHNICAL DATA](#)
- [9 FCC & IC DECLARATION](#)
- [10 Documents / Resources](#)
  - [10.1 References](#)

# rotronic

rotronic AWEY 2AG4J-AWEY AwEasy Water Activity Devices



## GENERAL DESCRIPTION

The AwEasy is a standalone measurement head for water activity and temperature. It can be operated as standalone device together with the free AwEasy App for Android and iOS.



For more information please visit [www.processsensing.com](http://www.processsensing.com) or [www.rotronic.com](http://www.rotronic.com) or scan the QR code (also on the measurement head), which gives you the direct access to the Rotronic Online Manual with further explanations.

## MEASUREMENT ARRANGEMENT

Before charging the AwEasy put the correct socket adapter on the power adapter (PS1006). Then connect the USB-A to USB-C cable with the USB-A plug to the power adapter and with the USB-C plug to the wireless charging plate (AwEasy-Charger). To disconnect the device from the power supply, disconnect the power adapter from the socket.

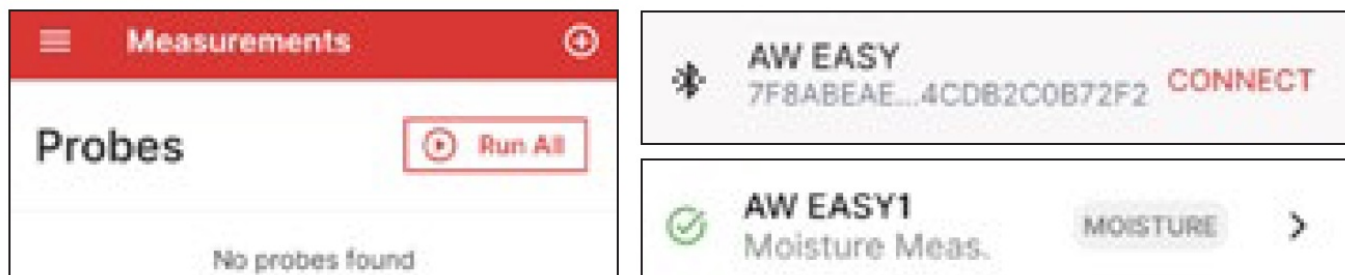
**NOTE:** The power adapter must always be easily accessible.

**WARNING:** The power supply can only be used up to an ambient temperature of 45°C. See also the temperature limits for the battery and charging in the TECHNICAL DATA.

## STARTING THE APP

Please go to the App Store (iOS) or the Play Store (Android) and download the AwEasy App. After the installation of the AwEasy App you can then start the application.

**NOTE:** Please make sure before using the device, that it's fully charged. For turning on or off the AwEasy press and hold the touch button on the top (below the display) for at least 10 seconds. To add the AwEasy measurement head to your device list, go into Measurements and click on the top right the "+" to add a new AwEasy device. The App will automatically search for the AwEasy measurement head



As soon as the measurement head is connected it will be shown in the Probes overview with a green arrow on the left side. If there is no active connection with the measurement head, it will be shown as disconnected (with no green arrow).

## STARTING THE MEASUREMENT

To start a measurement, click on the specific connected measurement head and click on the bottom of the measurement overview the Add new measurement button.



After that the Measurement Settings menu will open. To start a new measurement, it needs to be filled out at least the Measurement Name and the Batch Number. Content and Notes are optional for the measurement. In the end the measurement method has to be chosen. Rotronic recommends for the AWQ measurement a dwell time of at least 4 minutes and a temperature stability of 0.1°C/min. For the standard AWE measurement Rotronic recommends an AW stability of 0.0001 aw/min and a temperature stability of 0.01°C: Optional it's also possible to set an AW Setpoint. After setting the Measurement Settings it is then possible to start the measurement by clicking the Start button. As soon as the measurement starts a moving green line will appear and the Start button will change to Stop (to stop the current measurement).



**NOTE:** Do not use the AwEasy direct after charging. The charging generates heat in the battery, which can affect the measurement. Please wait at least 1 – 2 hours.

## STANDALONE MODE

To use the standalone mode, it must be set up first over the AwEasy App. Go from the Main Menu into Settings. In the Settings menu the File Name and the Batch Number needs to be defined. In there you can select different types like Date, Serial Number etc. for the generated Batch Number or File Name. Most important here is that in the Batch Number the Increment Number is selected as type. Next go into Measurement and select the desired AwEasy in the probes overview. Set up the measurement as described in STARTING MEASUREMENT above and click on Save.

After that, the AwEasy measurement head can be used without a Smartphone. The measurement data from the AwEasy will be automatically loaded to Smartphone as soon as it is reconnected. To add a new measurement and to start or stop a measurement just double tap the touch button. The following icons will appear on the AwEasy display:

Add new measurement	Start measurement	Stop measurement
+	▶	■

## GENERAL GUIDELINES

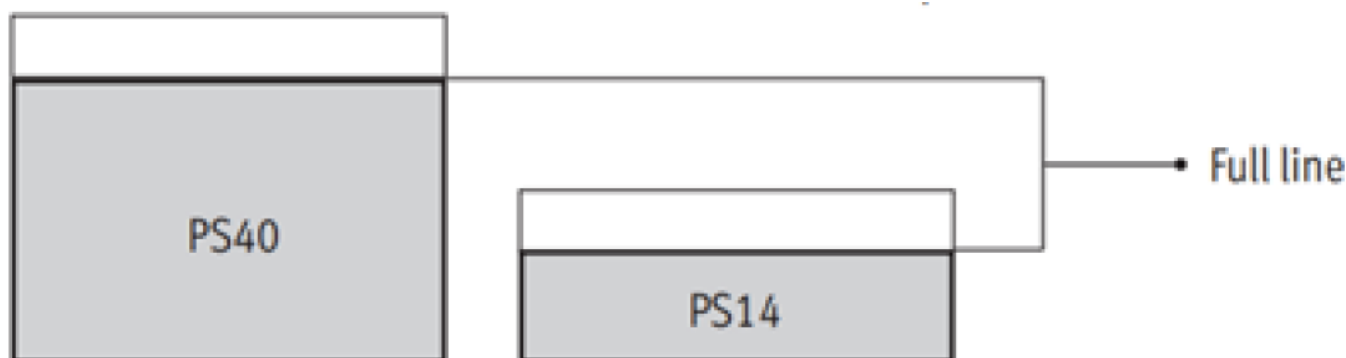
To make accurate and reproducible measurement, follow the following general guidelines to measure water activity:

- Measure water activity only in rooms with constant temperature; Ideal are rooms with small daily and yearly temperature variations. Avoid heating of the measuring equipment by sun radiation or radiators, draught, body radiation etc.
- Put the samples into the disposable sample cup and put the lid on it. The probe and the sample must stay in the same room for acclimation (normally room temperature)
- Avoiding warming up the probe and sample through body heat. Do not hold too long in your hands.

## SAMPLE CUP

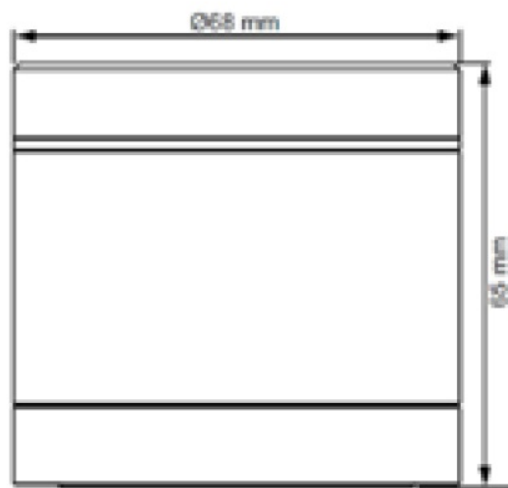
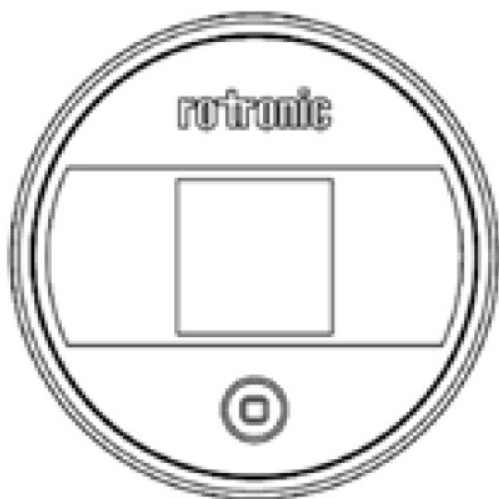
Put the sample into the sample cup.

To avoid cross-contamination do not fill more then up to the fill line.



Put the probe immediately on the sample cup after having filled in the sample to avoid humidity exchange with the ambient. The measurement time may vary depends on the probe. humidity and temperature value are ready to read when the values are stable for at least 1 – 2 minutes.

## DIMENSIONS



## TECHNICAL DATA

	<b>AwEasy</b>
<b>Sensor</b>	HYGROMER WA-1
<b>Accuracy @ 23 ±5 °C</b>	± 0.008 aw / 0.8 %rh / ±0.1 K
<b>Operating conditions</b>	0...70°C / 0...100%rh
<b>Storage conditions</b>	-10...70°C / 0...100%rh
<b>Ambient temperature for charging</b>	0...40°C (charging does not start when the temperature exceeds the limits)
<b>Battery temperature for charging</b>	0...60°C (charging stops when the temperature exceeds the limits)
<b>Long-term stability</b>	< 1 %rh / year (normal conditions)
<b>Parameters shown</b>	aw, %rh, °C, °F
<b>Status light</b>	Yes
<b>AW Quick Mode</b>	Yes
<b>Display</b>	1.2" LCD color display
<b>Button</b>	Multifunctional touch button
<b>Trend display</b>	Yes
<b>Clock</b>	Real time clock provides a time stamp for every measurement

<b>Batterie capacity</b>	500 mAh
<b>Power supply</b>	5 V DC 1.5A 7.5 W max (AC adapter)
<b>Power supply plugs</b>	US / EU & UK
<b>USB cable</b>	USB-A to USB-C
<b>Firmware update</b>	Direct over the App
<b>Protocols (values)</b>	Date, time, aw / rh / °C / °F, aw setpoint, serial no., etc.
<b>Operating frequencies</b>	2.4...2.5GHz (Bluetooth LE) / 110-205kHz(Charger)
<b>Acoustic alarm</b>	No
<b>Calculations</b>	No psychrometric calculations available
<b>Dimensions</b>	Ø68 x 65 mm
<b>Housing material</b>	Aluminum, stainless steel & PC
<b>Weight</b>	600 g
<b>CE conform</b>	CE 2014/30/EU
<b>IP protection rating</b>	IP65

## FCC & IC DECLARATION

This equipment (FCC: 2AG4J-AWEY IC: 30048-AWEY ) has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

Per FCC 15.19(a)(3) and (a)(4) This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. The Federal Communications Commission (FCC) warns the users that changes or modifications to the unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Per RSS-Gen, Section 8.4 This device (Aw Easy Charger) complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

## Documents / Resources



[rotronic AWEY 2AG4J-AWEY AwEasy Water Activity Devices](#) [pdf] Instruction Manual  
AWEY 2AG4J-AWEY AwEasy Water Activity Devices, AWEY 2AG4J-AWEY, AwEasy Water Act  
ivity Devices, Water Activity Devices, Activity Devices, Devices

## References

- [PST Process Sensing Technologies | Monitoring Instruments](#)
- [r0 Measurement Solutions - Humidity, Temperature, CO2 and Differential Pressure Measurement \(EN\\_US\)](#)