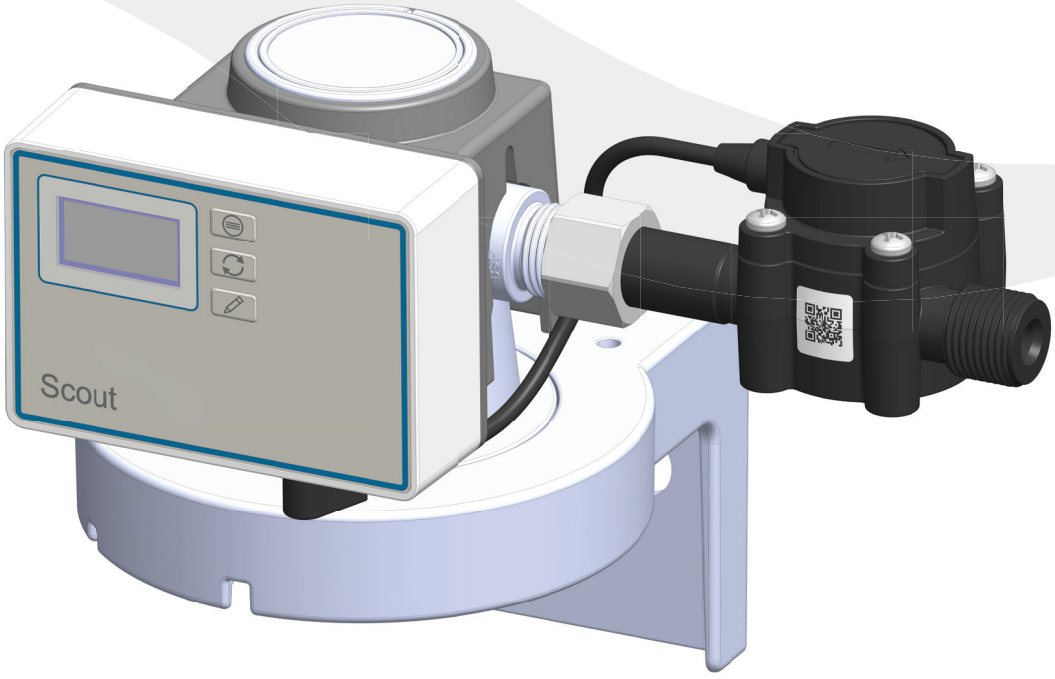
Aquis

SCOUT Flowmeter

de Installations- und Bedienungsanleitung
en Installation and Operation Guide



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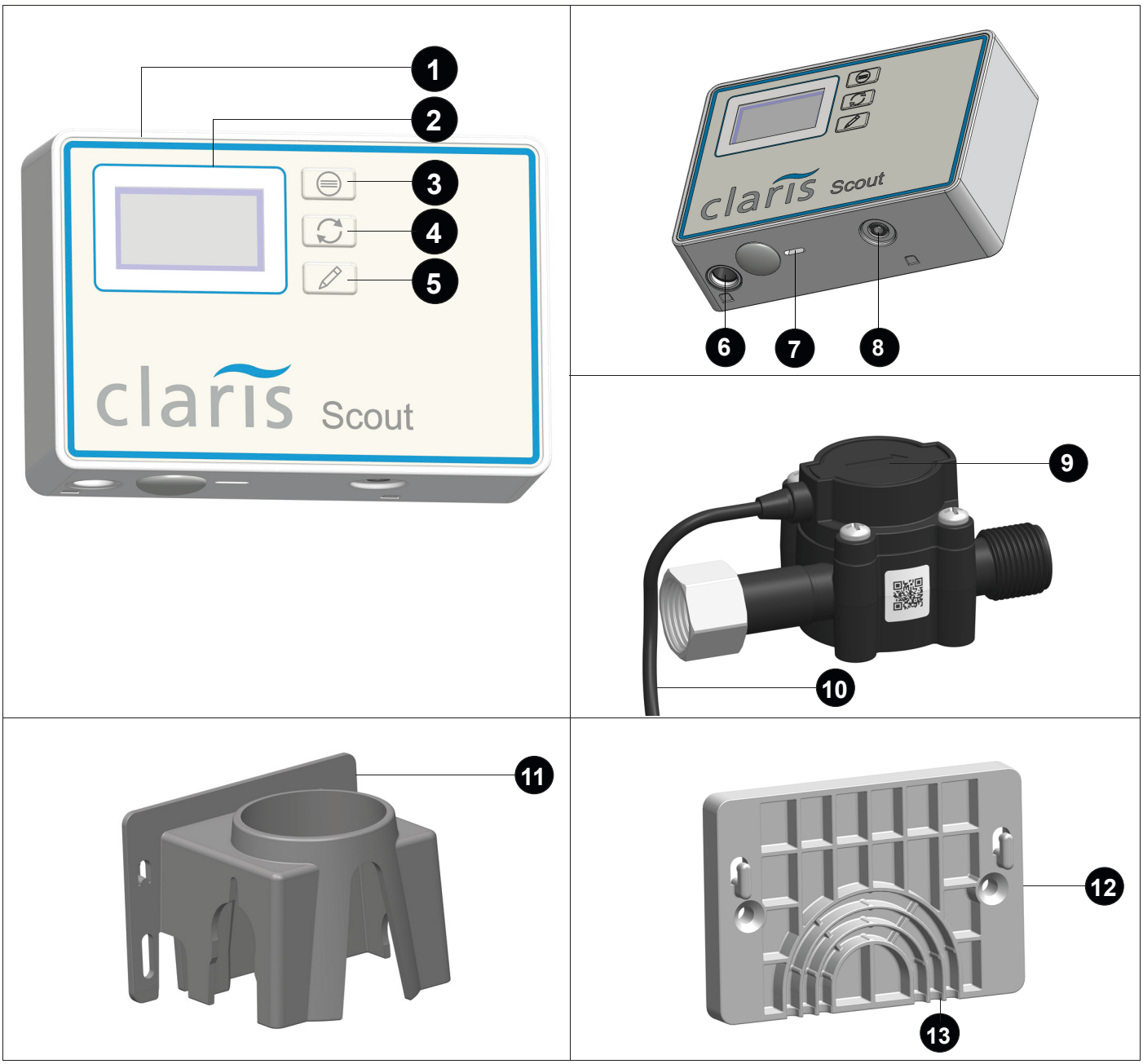
Komponentenübersicht / Overview of components



Begriffsübersicht:

1 Programmier- und Anzeigeeinheit
2 Display
3 „MENU“ Taste
4 „RESET“ Taste
5 „MODIFY“ Taste
6 Anschluss Netzteil
7 Alarm
8 Anschluss Flowmeter Sensor
9 Sensoreinheit mit G 3/8“ Überwurfmutter und G 3/8“ Aussengewinde
10 Kabel 1.5 m
11 Filterkopfhalterung
12 Wandhalterung
13 Kabelführung

Definitions of terms:

1 programming and display unit
2 display
3 “MENU” button
4 “RESET” button
5 “MODIFY” button
6 connector power supply
7 alarm
8 connector flowmeter sensor
9 sensor unit with G 3/8” F nut and G 3/8” M thread
10 cable 1.5 m
11 filter head bracket
12 wall bracket
13 cable guide

1. General Information

The SCOUT flowmeter was specially developed for monitoring water filter cartridges. It is used to measure the amount of filtered water and to display the remaining filter capacity until replacement.
Therefore, the filter-specific nominal-capacity must be entered into the device.
If the capacity is exhausted or if the maximum operating time of 12 month is exceeded, the filter cartridge must be replaced.
The programming and display unit provides the following information:

- nominal capacity and remaining filtration capacity of the cartridge
- total filtrate volume since Flowmeter installation
- filtrate volume and operation time of the last five installed filter cartridges
- gal to liter

2. Technical Data

Sensor Unit		**Standard Version**
Connection	inches	In 3/8“ BSP F nut / out 3/8“ BSP M
Operating pressure (min/max)	bar / psi	1-8 bar (14,5 – 116 psi)
Flow rate	l/h	15 - 500
Pressure loss	bar	≤ 0,5
Precision (horizontal installation)	%	+/- 5
Water temperature (min/max)	°C / °F	4-30°C (39 - 86 °F)
Ambient temperature (min/max)	°C / °F	4-40°C (39 - 104 °F)
Dimensions (BxHxT)	mm	80 x 39 x 42
Installation position		Horizontal recommended

Programming and Display Unit		**Standard Version**
Graphic display		5 digits
Counter	l	Downwards 99999 to -9999
Dimensions (BxHxT)	mm	80 x 54 x 29
Cable incl. jack plug		1,5 meter; 2,5 mm
Power supply		H5.5-,2.1+,10mm H-type

3. Instructions

3.1 General

- Read the Installation and Operation Guide carefully before each installation and start of operation. Follow all steps exactly as indicated in the instructions.
- Ensure that the flow direction corresponds to the arrows on the sensor unit.
- It is recommended to mount the sensor horizontally for highest accuracy.
- Don’t expose the Flowmeter to any mechanical stress.
- Ensure that all seals and connections are made using suitable components (are included).

3.2 Measurement tips

- Avoid rapidly pulsating water flow
- Avoid water-air mixture
- Avoid inductive interference
- Be aware that the unit is calibrated to measure water flow and hence measurements may vary with other fluids

3.3 Staff

The installation and maintenance of the SCOUT Flowmeter may only be carried out by trained and authorised personnel.

3.4 Safety Information

1. Follow all instructions and guidelines.
2. Use only standard battery cells of the type AA (2 pieces).
3. Ensure that the battery cover is properly sealed to avoid debris and moisture penetration.
4. The battery should be removed in the following cases:
   - Water or other liquids ingress into the appliance.
   - If the display does not function.
   - If the housing or the display unit is damaged.
   - If the buttons do not function.

All repairs should only be carried out by an Authorised Service Agent.

3.5 Disclaimer

Information contained in this document is believed to be accurate at the time of publication, but does not constitute a contractual offer. The right is reserved to alter specifications without prior notice. Illustrations and tabulated data are for guidance only. Aquis does not assume liability for any damages, including subsequent damages, that may result from incorrect installation or usage of the products. Aquis does not assume liability for damage caused by using parts from other manufacturers.

4. Installation

4.1 First time installation of the filter system with the sensor unit

For initial installation of filter system with SCOUT Flowmeter, first install the filter head (see Operation Guide “filter systems” chapter 6).

4.2 Installation of the sensor unit to an existing filter system

If a filter system is already in place, follow the following steps:

1. Remove connection hose from the filter head liquid outlet using an appropriate tool.
2. Connect the sensor unit with the nut directly to the filter head (use the provided flat gasket).
3. Connect the hose to the outlet of the sensor unit (use the flat gasket).

NOTE
Disconnect the filter head from the water supply before start of installation.
Ensure correct alignment of sensor unit with direction of flow (arrow on the housing).
Use only appropriate tools for the installation (spanner 19 mm).
The sensor unit should be mounted horizontally.
Don‘t exposes the Flowmeter to any mechanical strain; particularly take care of any leverage effect from kinked or bent hoses. If necessary, brace the connections.
Use only suitable gaskets and connecting materials.
Before start of operation flush the system and check for leaks.

4.3 Programming and Display Unit

4.3.1 Mounting using a screw (is recommended for secure and permanent fixation)

1. Flat head screw with max. 4 mm shaft diameter is recommended.

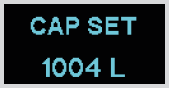
4.3.2 Mounting with glue dot

1. Attach the supplied glue dot to the back of the wall mounting.
2. Completely remove the protective film from the glue dot.
3. Glue the wall mounting in the desired position.

NOTE: Avoid unintentionally pulling out the connector. Handling: press the sensor cable into the cable guide (Fig. 13).

5. Programming

5.1 General operation

Step	Button		Display
1.		Press the „MENU“ button once - Display „filter status“	
2.		Press the „MENU“ button once - Display „flow“	
3.		Press the „MENU“ button once - Display „total count“	
4.		Press the „MENU“ button once - Display „set filter capacity“	
5.		Press the „MENU“ button once - Display „counter reading“ - 0 appears in the display = current filter was used at a counter reading of 287 L	
6.		Press the „MENU“ button once - Display „alarm“	
7.		Press the „MENU“ button once - Display „settings“	

After 30 seconds of inactivity, the display automatically returns to „filter status“.

5.2 Setting the filter capacity in litre

Please follow the capacity instruction for the appropriate CLARIS filter cartridge (see CLARIS filter Guide).

Step	Button		Display
1.		Press and hold the „MENU“ button for approx. 5 sec. - Active digit flashes	
2.		Press the „MODIFY“ button - Setting the active digit	
3.		Press the „MENU“ button - to confirm the desired digit and switch to the next digit - Active digit flashes (repeat the process to the last digit)	

5.3 Resetting the filter capacity (after replacement of filter cartridge)

Step	Button		Display
1.		Menu item „filter status“ Programmed filter capacity exhausted or maximum operation time of 12 months exceeded	
2.		Press and hold the „RESET“ button for approx. 5 sec. - „reset 5s“ appears on the display, the countdown counts down	
3.		The filter capacity is reset, and the last programmed value appears	

After reset, a timer is started that shows a filter change after 360 days.

5.4 Count reading (when inserting the filter)

It is possible to call up total count reading during the exchange of the last five filter installed individually.

Step	Button		Display
1.		Press and hold the „MENU“ button for approx. 5 sec. - The digit „-1“ appears = Total count reading at the penultimate exchange of a filter	
2.		Press the „MENU“ button once - The digit „-2“ appears, press until „-4“ possible	

5.5 Alarm

Step	Button		Display
1.		Press and hold the „MENU“ button for approx. 5 sec. - „Beep on“ or „Beep off“ flashes	
2.		Press the „MODIFY“ button once - Change in „Beep on“ or „Beep off“	
3.		Press the „MENU“ button once - The programmed value appears	

5.6 a Setting unit (Liter or gallon)

Step	Button		Display
1.		Press and hold the „MENU“ button for approx. 5 sec. - „L“ or „Gal“ flashes	
2.		Press the „MODIFY“ button once - Change in „L“ or „GAL“	
3.		Press the „MENU“ button once - The programmed value appears	

5.6 b Setting pulses per liter

Calibration factor to be able to use other sensors.

Step	Button		Display
1.		Press and hold the „MENU“ button for approx. 5 sec. - „L“ or „Gal“ flashes	
2.		Press and hold the „MODIFY“ button for approx. 10 sec. again - „Pulses per liter“ appears - Active digit flashes	
3.		Press the „MODIFY“ button - Setting the active digit	
4.		Press the „MENU“ button - to confirm the desired digit and move to the next digit - Active digit flashes (process belongs to the last digit)	

The standard is 740 pulses per liter

6. Service / Maintenance

Check the SCOUT flowmeter for leaks daily.
In the event of a fault, please contact your service contractor.