

Installation of your Smart Gutter

rectangular model

Thank you for choosing Quantified. This short manual gets your Smart Gutter measuring weight and drain within five minutes. Go to <https://www.quantified.eu> for manuals and the product catalogue with specifications.



FOLLOW THIS ORDER

- | | |
|---|---|
| 1 Before you start
Gateway, orientation, levelling and taring | 2 Placing the Smart Gutter
Lift, slide in and check the free rest |
| 3 Checking the drain sensor
Tipping bucket and EC-pins | 4 Drain data & maintenance
How drain values are represented |

⚠ Install the Gateway first!

1 Before you start

PREPARATION · GATEWAY

First install the gateway according to its own manual. The Smart Gutter transmits through the FireFly, which needs a gateway connection.

TIME NEEDED · 5 MINUTES

Installation takes about five minutes. It is easiest with two people, so the substrate mat can be lifted from both ends.

TARING · SETTING THE ZERO POINT

Both the scale and the drain sensor are tared (set to zero) with the FireFly magnetic reset. Decide beforehand **when** you want to tare: with or without the substrate mat or pots in place.

⚠ **Attention:** if the Smart Gutter is reset while the mat or pot holds a lot of moisture, the scale will eventually indicate negative weights as that moisture evaporates.

ORIENTATION & LEVELLING

- ✓ Place the drain sensor on the side of the general inclination of the supporting base — the direction where water runs off.
- ✓ Use the bubble level on the Smart Gutter to set it level. This is important for accurate drain volume readings.
- ✓ Position the drain of the plastic gutter directly over the funnel of the drain sensor.



Figure 1. Direction of inclination for drain, the reset spot on the FireFly (LED blinks red, then green) and the drain positioned over the funnel.

2 Placing the Smart Gutter

- 1 Load the plastic gutter.** Take the plastic gutter and place the substrate mat (or the pots) in it.
- 2 Slide the Smart Gutter in.** Lift the plastic gutter with one hand – each person at one end – and slide the Smart Gutter between the support and the plastic gutter with the other hand.
- 3 Check the free rest.** Look at the underside of the plastic gutter: it must rest freely on the support frame – cables included. Anything touching or pinched influences the weight measurement.

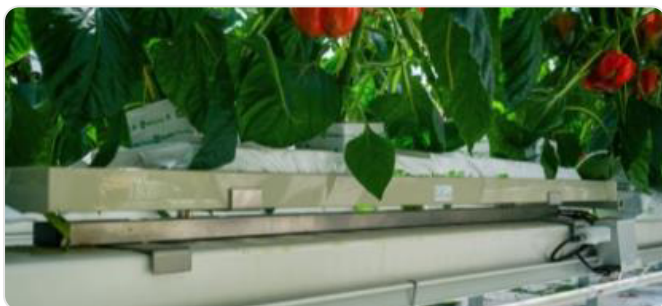


Figure 2. Smart Gutter between support and plastic gutter, resting freely.



Figure 3. Level installation on the supporting base, drain sensor on the run-off side.

3 Checking the drain sensor

- 1 Free the tipping bucket.** Lift the lid of the drain sensor and check the inside: gently remove the elastic rubber around the tipping bucket.
- 2 Inspect the bottom.** Gently remove the bottom of the drain sensor and check that there is no contamination near the EC-pins.

⚠ **Attention:** the bottom part is attached with short electrical wires. Do not break them – remove the bottom carefully and only as far as the wires allow.

4 Drain data & maintenance

The Smart Gutter only generates drain measurements **during drain events**. Choose how the data should be represented between those events:

- ☐ a Cumulative drain volume, or a periodical reset to “zero”.
- ☐ b No drain volume, EC and T data when there are no drain events.
- ☐ c Repetition of the last drain volume, EC and T measurements until a new drain event occurs.
- ☐ d A “zero” value for drain volume, EC and T when there are no drain events.

Maintenance

Regularly check the general condition of the Smart Gutter and the installation conditions:

- ✓ Remove any contamination from the drain sensor funnel and around the EC-pins (see step 3).
- ✓ Check that the plastic gutter still rests freely on the support frame and that cables hang free.
- ✓ Verify with the bubble level that the Smart Gutter is still level.

Questions about your installation? Contact us via www.quantified.eu.