

# DATA SHEET

## Water meter

# Feldfühler Flo



**feldfühler**

Professional sensors for agriculture!

## Overview:

Flo is a LoRaWAN water meter for professional agriculture. You can use it to measure water consumption precisely and send the information via the wireless LoRaWAN protocol to the Feldfühler app.

Flo uses a flow sensor with an impeller and a measuring range of 2–100 L/min. It reliably records the amount of water flowing through (64 pulses per liter) and additionally detects the flow status. This makes Flo ideally suited for monitoring water consumption in irrigation, frost protection and drainage – and it reports unusual flow such as a pipe burst or continuous run via alarm.

Flo is powered by a 0.9 W solar panel and a 3000 mAh Li-ion battery, which is ideally suited for the harsh conditions in agriculture and for long-term use (battery life depends on the operating environment and the update interval).

## Features:

- Measures water consumption (flow)
- Reports every 20 minutes
- Flow alarm on pipe burst & continuous run
- Extremely low power consumption
- Solar panel & battery
- Waterproof housing per IP66
- Connection G1" / DN25

## Sensor specification:

### Functions:

- Measuring range: 2–100 L/min
- Measured variable: water flow
- Resolution: 64 pulses / liter
- Connection: G1" / DN25
- Interval: 20 min.
- Alarm: on flow status

### Technology:

- Power: solar + 3,000 mAh Li-Ion
- Radio: LoRaWAN Class A, EU868
- Transmit power: up to +22 dBm
- Housing: IP66, –40...+85 °C



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## Feldfühler Flo

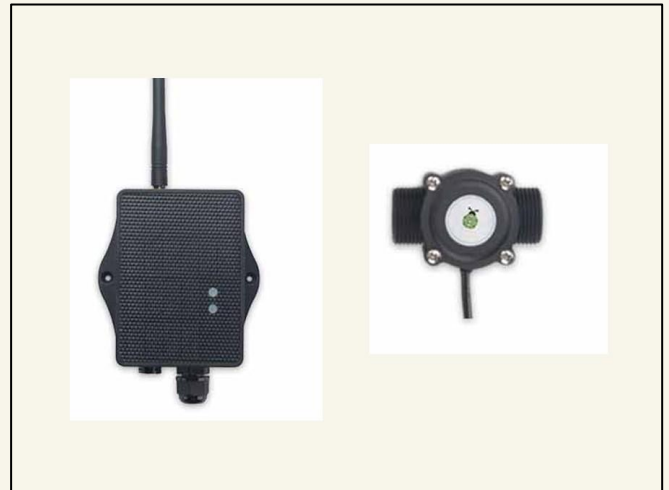
### Application:

Flo keeps an eye on your water consumption – everywhere where every liter counts: in irrigation, in frost protection and in drainage monitoring in berry cultivation.

Flo measures the amount of water flowing through and reports it every 20 minutes to the Feldfühler app. If Flo detects an unusual flow – such as continuous run or a pipe burst – it additionally sends an alarm immediately.

All values automatically end up in the Feldfühler app. There you see the current consumption, trends and daily quantities – and you can have an alarm sent to you immediately when set limits are exceeded.

Thanks to the solar panel and rechargeable battery, Flo works for years with low maintenance. Questions about the setup? Let us know, we'll take care of it!



| Technical data  | Value                    |
|-----------------|--------------------------|
| Measuring range | 2–100 L/min              |
| Resolution      | 64 pulses / liter        |
| Connection      | G1" / DN25               |
| Max. pressure   | 2.0 MPa (20 bar)         |
| Interval        | 20 minutes (fixed)       |
| Radio           | LoRaWAN Class A, EU868   |
| Power supply    | Solar + 3,000 mAh Li-Ion |

### Installation:

#### Connection & mounting

1. Install the water meter into the pipe (G1" / DN25) and observe the flow direction – the arrow on the housing indicates the direction of flow.
2. **Note: Mount Flo as horizontally as possible and provide some straight settling section before and after the meter. Permissible pressure up to 2.0 MPa (20 bar).**
3. Mount the transmitter unit with the side tabs within range of the meter and connect it to the sensor cable.
4. Align the solar panel to face south as much as possible so that the battery charges reliably.
5. Activate Flo with a long button press (over 3 seconds); the green LED indicates the connection.
6. Check in the Feldfühler app whether the flow values are arriving correctly.
7. Route the connection cable so that it is protected from damage.



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