

FLOSTICK RC4

Portable Flow Meter User Manual

Part Number : 20-255

Hardware Version : 1.0

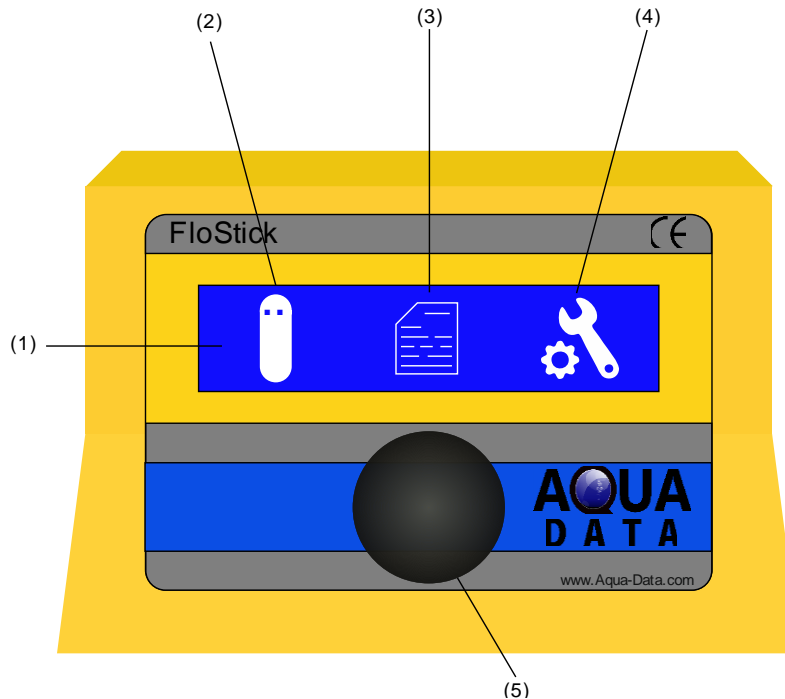
Software Version : 1.d



Revision B

May 2021

USER INTERFACE



- (1) Main Menu
- (2) Live Data Page
- (3) Logged Data Page
- (4) Settings Page
- (5) Encoder knob

POWER UP

Press the encoder briefly to initiate the power up sequence. This will consist of the FloStick loading screen which shows the company logo, then goes to the screen which shows the version number, name of the product (FloStick) as well as the set date and time. When powering up, the product will beep twice.

POWER DOWN

In order to power down the device you need to hold down the encoder for three seconds; releasing the encoder during this period will cancel the power down. The unit will beep twice and then a third elongated beep will sound at which point the screen will show "SHUTTING DOWN".

ENCODER

The encoder can be rotated to allow the user to cycle through the available options, highlighting the selected option. Pressing down on the encoder will confirm the selected option. The encoder can be used to fully operate the unit. Double pressing the encoder also helps go back on some menus where a back button is not available.

LOGGING DATA

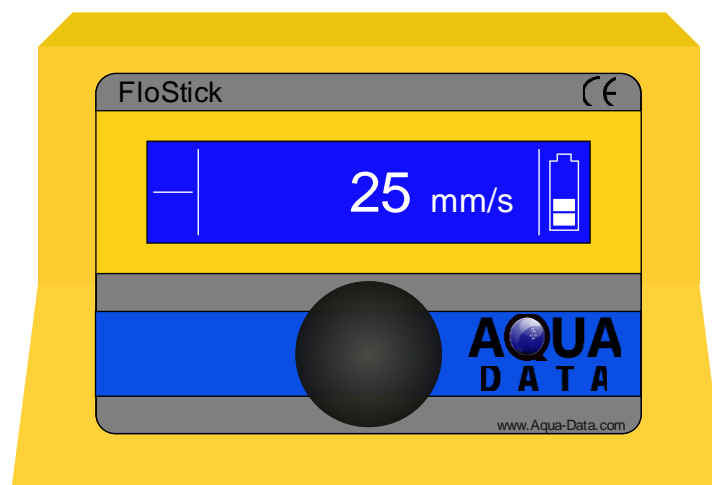
To log any data, you must be in the Live Data page. Simply press the encoder once and you will see a circle appear on the screen, this tells you that this data point and has been logged. Its logs one data point at a time. This data can be retrieved by going to the Logged Data page and uploading your data.

BATTERY STATUS

While in normal operation, the battery icon can be located on the right-hand side of the screen whilst looking at the Live Data page. While the unit is charging, the green light on the mains charger will be flashing. If there is an issue, the red light on the charger will flash.

VISUAL REPRESENTATION

The live velocity data will be shown on the Live Data page. This page shows the velocity reading. The graph on the left-hand side of the page shows the rate of change of velocity. If there is a line through the reading, the unit is not ready for a measurement to take place.



DATA UPLOAD PROCEDURE

PREREQUISITES

Terminal emulator (On windows, Termite by CompuPhase is recommended)

FloStick with saved log data

FloStick Download Cable or Charger/Download Cable

USB to RS232 Adapter Cable, SDI12

PROCEDURE:

Change settings in terminal emulator:

BAUD rate 9600; 8N1 (8 Data bits, no parity bit, 1 stop bit)

Connect the FloStick:

Ensure that the FloStick is connected to PC via RS232 to USB adapter

Upload probe log data:

Navigate to Main Menu

Press the Logged Data button and then "Upload" to begin uploading data starting from the most recently logged data

When upload has stopped, select all the output text of the terminal emulator, copy and paste it into a text file.

ERASE DATA

This allows the user to clear all logged velocity data readings. This takes approximately 4 minutes.

SETTINGS

The FloStick presents a more tailored experience with the ability to change the following settings:

Language: English, French, German, Danish, Dutch, Spanish + Others

Date / Time: Current

Units: Set velocity units - (metres per second, millimetres per second, feet per second)

SPECIFICATION

Sensor

Method	Electromagnetic
Accuracy	3% max reading + zero stability
Zero Stability	Typically $\pm 0.01\text{m/s}$, max $\pm 0.03\text{m/s}$
Range	0 – 3m/s
Dimensions	RV4-125x30x15mm

Portable Flow Meter

Environmental Rating	IP65
Dimensions	160x105x97mm
Weight	1.75kg
Operating Temperature	-10 to +50°C
Battery Type	Lithium-ion, Rechargeable
Battery Life	Standard: 20hrs continuous usage (up to 30hrs with reduced backlight) <i>Note: Battery life depends on usage and screen brightness</i>
Battery Charger	AC wall outlet charger, 110, 230VAC CE/UL
PC Interface	RS232
Display	144x32 graphic LCD with blue backlight
Encoder	Waterproof, 25mm dia. knob
Data Storage	2000 data points
Units of Measurement	Metric: m/s, mm/s, Imperial: ft/s
Languages	English, French, German, Danish, Dutch. Other languages on request.