

# User's Guide

# FloPump

## by SoftCircuits



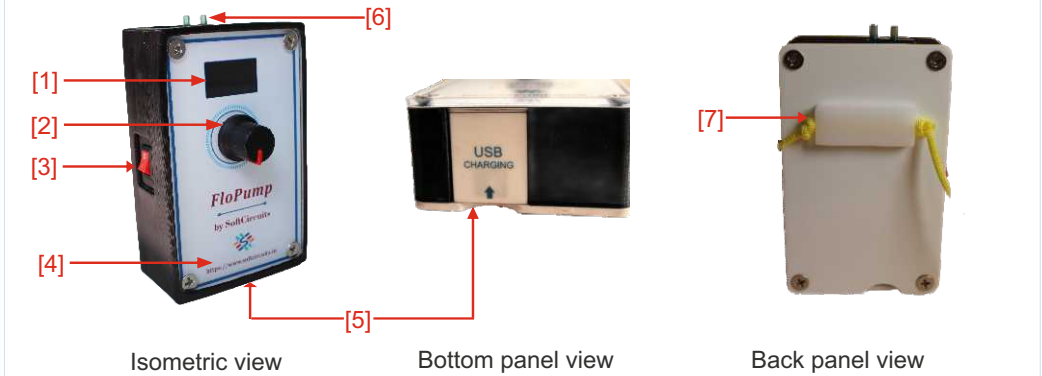
User Manual and Warranty information for  
FloPump Devices.

Please read this user manual carefully  
before operating the device.



<https://www.softcircuits.in>

## Parts of FloPump



- [1] OLED display
- [2] Rotary Knob
- [3] Main ON-OFF switch
- [4] Battery Charging LED Indicators

- [5] USB Charging port
- [6] Pump Inlet & Outlet
- [7] Drawstring for device attachment

## A. Device Operation

### Battery Insertion

- Remove the outer cover of the device to expose the back panel.
- Remove the screws holding the back panel.
- Place the battery inside the battery holder *with correct polarity*.
- Fit the back panel again with the screws.

### Charging the FloPump Device

- Whenever the battery is replaced, **fully charge the device before switching it ON**. On connecting the micro USB charger at Charging Port [5], **Red light** at the LED indicators [4] indicates device is charging and blue light indicates the battery is fully charged.
- Before connecting the FloPump device to Air Flow Meter or any other device, check the device by flipping the ON switch [3]. If the display shows “Lo”/”Low” near the battery sign, charge the device before operation.

### Setting the Parameters

- Switch ON the device by flipping the ON Button [3]. The default settings of timer & flow-rate/pump-speed will be displayed.
- Long press the knob button [2] for 5 seconds and the menu option “set timer” will be displayed. Now release the button and rotate the knob clockwise/anti-clockwise to *increase/decrease the timer*. Then press the button again at the timer value you want to set. Now the display will revert to main screen showing set values of the timer.
- Similarly, long-press the knob button for 10 seconds to disable/enable the timer.
- The *flow rate/ Pump speed* can be changed by rotating the knob when main screen is displayed.

## Operating the Device

- Once parameters are set, pressing the knob button will start the FloPump with the selected flow-rate and the pump will stop automatically once the timer is over.
- Alternatively, pressing the button again will stop the device.

## B. Display Indicators



## C. Product Specifications :

**Device Version :** VSU-2V0, VSU-2V1, VSU-2V2

**Battery Details :**

- **Capacity-** 2500mAh, 9.25WH
- **Type** – Li-ion rechargeable 18650 battery, 3.7V, removable
- **Charging input current-** 1A

**Maximum flow rate :** 800mL/min

**Device Weight :** 200g

## D. Purpose of the User Manual

The User Manual provides you with instructions and information to use the FloPump device. It also includes relevant guidance for practical handling and maintenance of the device. However, the flow-rate calibration should be done by the user using a flow-meter as per the guidelines of flow-meter.

## E. Device Applications

SoftCircuits FloPump device is intended for use in the applications that require a regulated air flow, for example sampling of VOCs from plants, room etc., or generate a regulated air flow in wind-tunnel experiments..

## F. Cautions and Warnings

- When working with the FloPump device, air flow meters and accompanying electronics, follow the standard procedures to protect the devices from damage or any other malfunctioning.
- All users must read and understand all documentation for the FloPump devices and components before operating or maintaining the device.
- Do not operate the device in any other way than described in the user documentation. If you do, you may be exposed to hazards that can lead to personal injury and you may cause damage to the equipment.
- Extra care must be taken when using the electronic components with fluids.
- Take special care while charging the device. Do not charge the device at currents higher than the maximum allowed rating (1A).
- Do not operate the device while charging. It may lead to device malfunction or personal injuries.

The information contained in this manual and the accompanying products are all rights reserved by SoftCircuits, provided exclusively to the party buying the devices from SoftCircuits. SoftCircuits can make periodic design changes in order to meet industry standards or enhance device features.

## Warranty Information

- SoftCircuits provides a warranty on all parts and factory workmanship. The warranty includes areas of defective material and workmanship, provided such defect results from normal and proper use of the equipment.
- The warranty for all products will expire one year from date of shipment from SoftCircuits warehouse.
- This warranty covers replacement of the defected device, but not transportation and insurance charges.
- In the event of a warranty claim, contact SoftCircuits as soon as possible. If the cause is determined to be a manufacturing fault, SoftCircuits will repair or replace defective device. Under no circumstances shall SoftCircuits be held liable for indirect, consequential or special damages of any kind while the device is with the client.
- No individual has authorization to alter the provisions of this warranty policy or its amendments.
- The liability of SoftCircuits lies only up to the FloPump device and any damage to the devices connected to FloPump device shall be user's responsibility.
- Damage due to corrosion or accidental breakage is not covered.

## Returned or Damaged Goods

- Do not return goods without the prior authorization from SoftCircuits. Unauthorized returns will not be accepted. If your shipment was damaged in transit, you must file a claim directly with the freight carrier. SoftCircuits is not responsible for shipping damages.
- All users of this equipment are required to become familiar with any regulations that apply in the user's area concerning the dumping of waste materials in or upon water, land or air and to comply with such regulations. SoftCircuits is held harmless with respect to user's compliance with such regulations

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