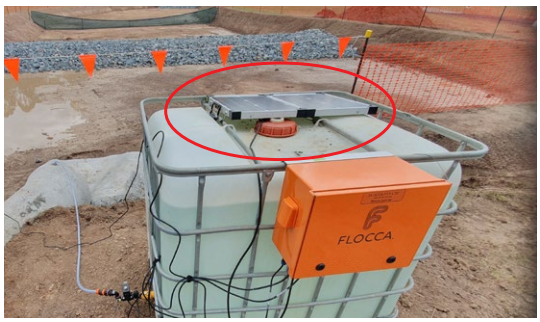
Flocca Flow - Quick Setup Guide

1. INSTALL FLOCCA CONTROLLER UNIT

- Hang unit on the side of the IBC with the bracket provided
- Open external door with key
- Open internal door with key and remove battery isolation strip as per instruction sheet included
- Close internal door

2. SOLAR PANEL

- Set up the solar panel on top of the IBC
- Face panel north
- Ensure no shadow on panel as this can significantly effect the solar panel efficiency
- Secure with zip ties to prevent it from moving
- Attach cable to underside of Flocca unit



3. INSTALL OUTLET ASSEMBLY

- Screw connector onto IBC
- Attach rest of assembly to connector with the camlock clamp. Secure with pins. Keep solenoid valve and elbows upright
- Open IBC valve
- Attach solenoid cable to underside of Flocca unit
- Attach flow meter cable to underside of Flocca unit

4. INSTALL ULTRASONIC SENSOR

- Drill minimum 30mm hole in inlet pipe or over channel, at least 0.3m from the end of the pipe
- Secure the ultrasonic sensor with the nuts provided
- Make sure the sensor cannot possibly drop through the hole in the pipe!! Use a large washer or thin plate with hole drilled if needed
- Measure the internal diameter of the inlet pipe or channel
- Measure the longitudinal grade of the pipe or channel
- Attach ultrasonic cable to underside of Flocca

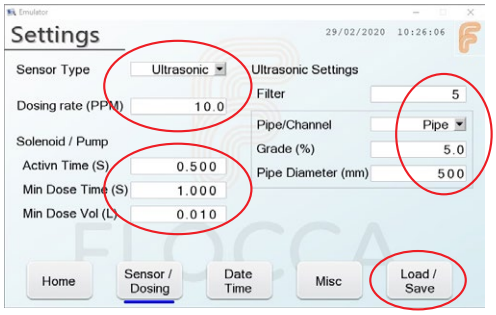
5. TURN ON FLOCCA

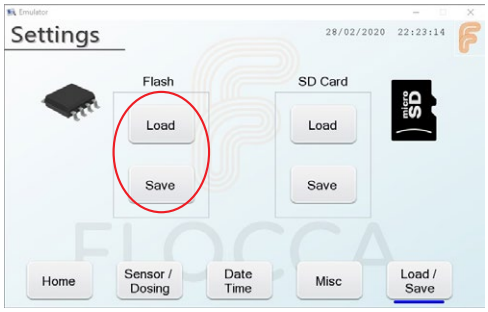
- Open external door with key
- Turn on controller with switch next to screen

6. ENTER TIME AND DATE

- From Main Screen, go to Settings > Date Time
- Using the touch screen, enter New Date-Time and press Set
- Press Home
- It is important to enter date and time correctly so that data logs are accurate

7. ENTER SENSOR AND DOSING SETTINGS





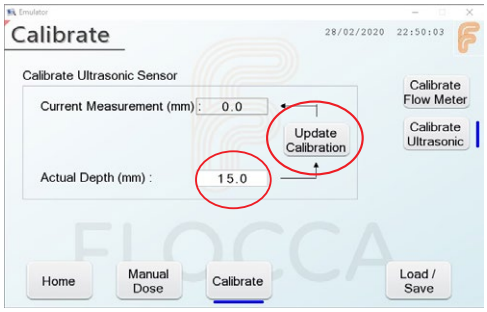
- From Main Screen, go to Settings
- Sensor Type > using the dropdown, select Ultrasonic
- Dosing Rate (PPM) > enter value as specified by jar test or as advised by chemical supplier [1]
- Min Dose Vol (L) > ensure value is at least 0.1 L (important)
- Filter > leave value at 5, unless told otherwise [2]
- Pipe/Channel > using the dropdown, select Pipe or channel if using trapezoidal channel
- Grade – enter % value as measured (longitudinal)
- Pipe diameter (mm) – enter value in mm [3]
  (For channel, enter base width, grade and side slopes 1:x)
- Press Load/Save – Save to Flash
- A minimum 4m length of pipe or channel is recommended to achieve laminar flow in the pipe
- Do not direct the pump hose directly into the pipe or channel, this will not achieve laminar flow

[1] *Dosing Rate – if using ACH, this value is usually somewhere between 50 and 150*

[2] *Filter – default value is 5. Can be adjusted higher to 10 if there is significant interference from wind*

[3] *Pipe diameter – must be entered accurately since the controller will use this value to calculate the flow rate*

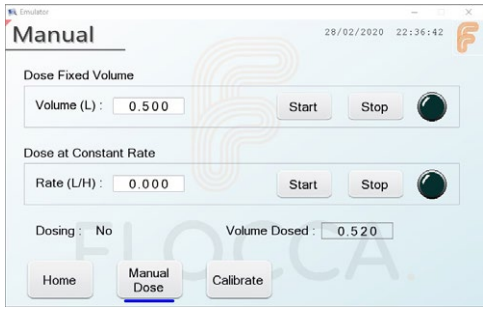
8. CALIBRATE ULTRASONIC



- From Main Screen, go to Manual Calibrate
- Select Calibrate Ultrasonic
- Enter Actual Depth (mm) as 0
- Select Update Calibration
- Actual depth would only ever have a value if there is water standing in the pipe at time of installation

To perform a test dose (recommended), refer below

9. MANUAL (TEST) DOSE



- Place measuring jug (min. 1 L at outlet hose)
- From Main Screen, go to Manual/Calibrate
- Dose Fixed Volume (L) – enter 0.5 L
- Press Start (No need to press Stop, dosing will stop automatically)
- This first dose will fill any voids in the outlet assembly and hose
- Return chemical to IBC and place measuring jug at outlet again
- Dose Fixed Volume (L) – enter 0.5 L. Press Start
- No need to press Stop, dosing will stop automatically
- Check that volume in jar matches fixed volume, within 10%
- Press Home - finished, your Flocca is now good to go