

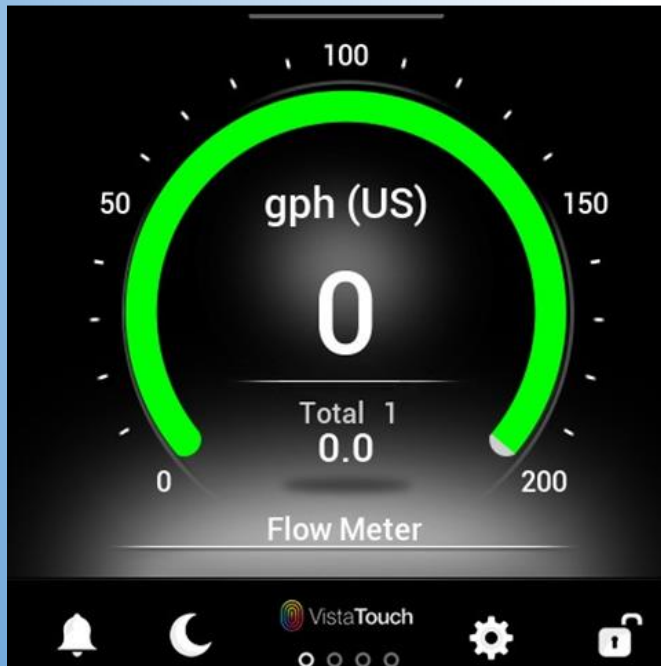
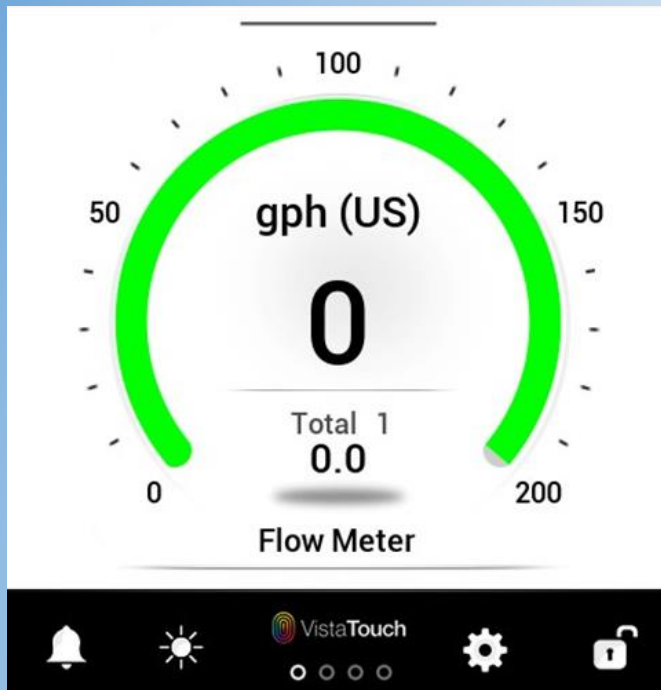


Vista Touch Flow Indicator

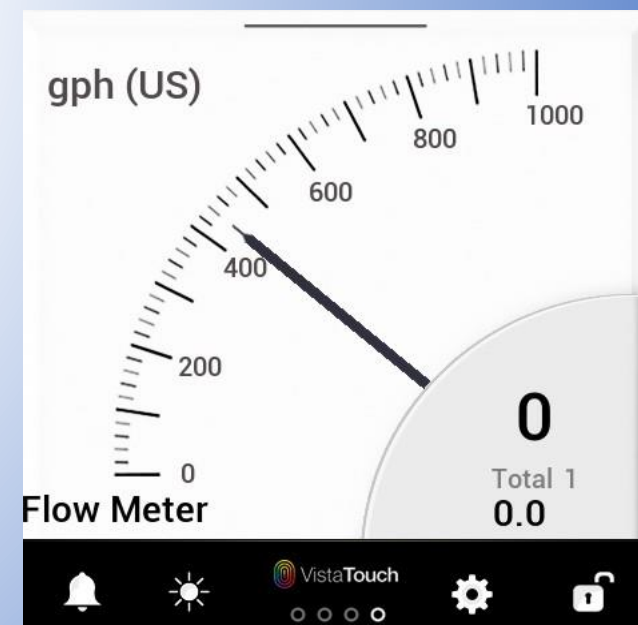
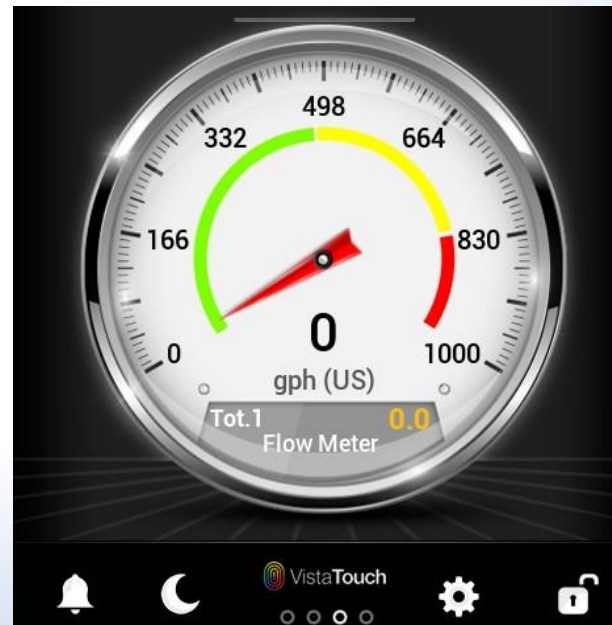
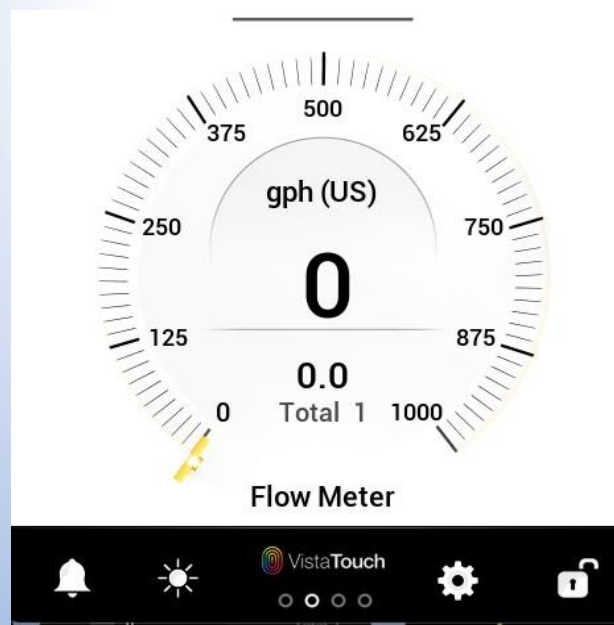
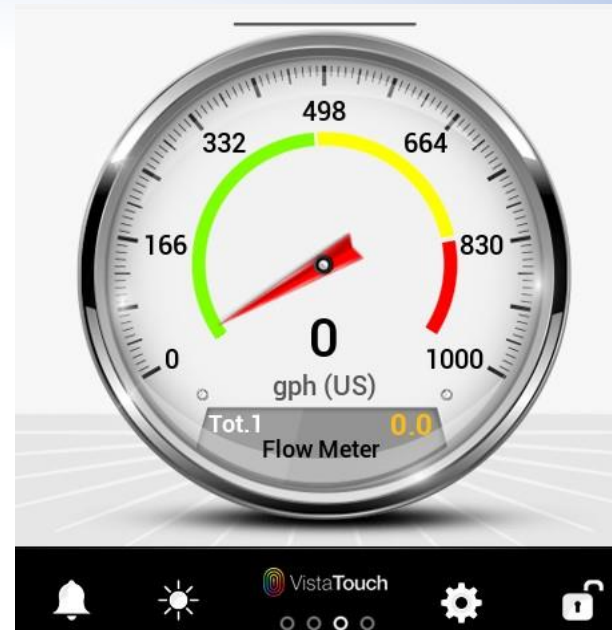
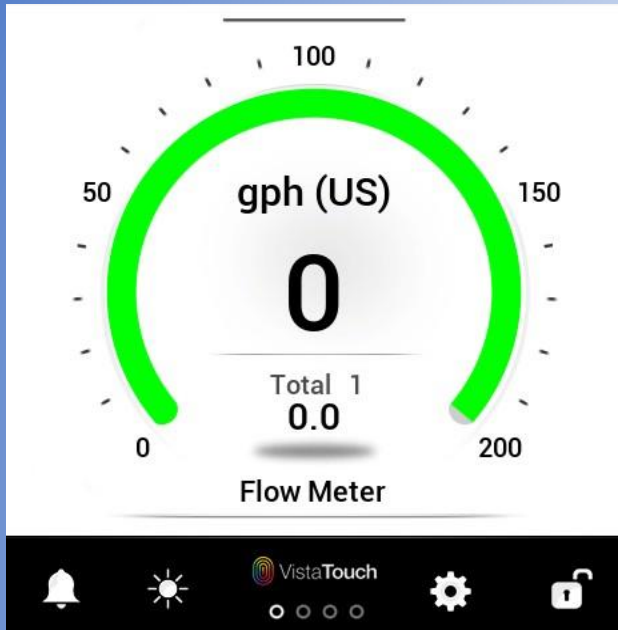
VISTA TOUCH FLOW INDICATOR

A revolutionary panel meter, the Vista Touch Flow Indicator has been designed for use with a wide range of industrial flow sensors, making it ideal for a range of applications.

- ▶ Vibrant, full-color touch screen display
- ▶ User programmable super flexible and useful alarms
- ▶ Day and Night mode
- ▶ IoT Remote Monitoring with unlimited email alerts for FREE forever

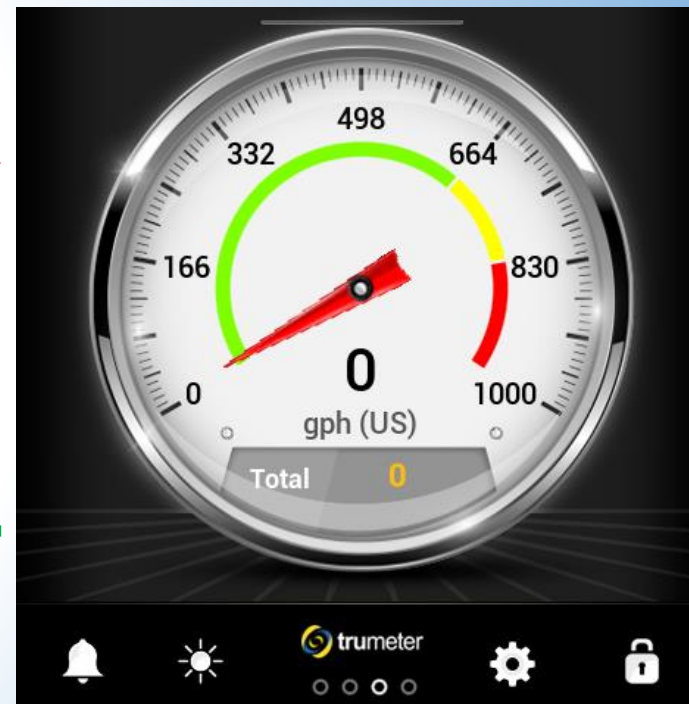
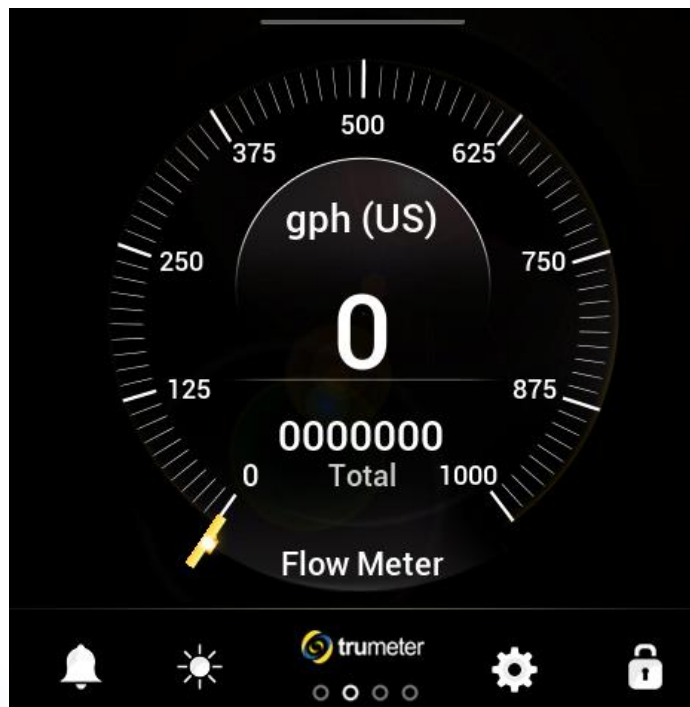
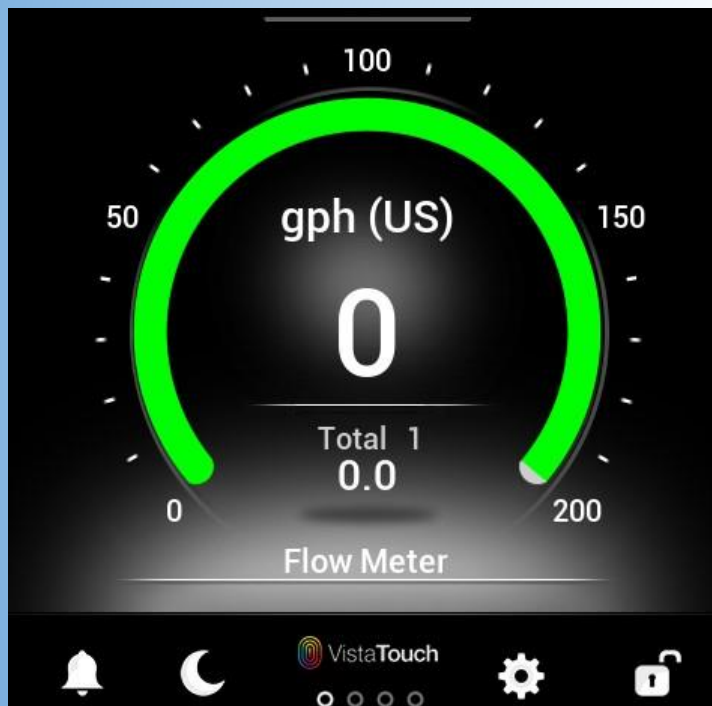


Vista Touch Power Meter Selectable Display Gauges



Vista Touch Power Meter Gauge Selection

How do I change the gauge that is showing on the display?



Swipe Left or Right on the display screen

Vista Touch Flow Gauge Parameters

Gauge range

- Range min – Enter the minimum value of your measurement (usually zero)
- Range max – Enter the maximum value of your measurement

Decimal places

- 0 – no decimal places
- 0.0 – 1 decimal place
- 0.00 – 2 decimal places
- 0.000 – 3 decimal places

Display units – Select the measurement type

- Liters
- Gallons (US)
- Gallons (UK)
- Fluid Ounce (US)
- Fluid Ounce (UK)
- Cubic Feet
- Cubic Meters

Per

- Hours
- Minutes
- Seconds

Gauge 1 Configuration

Gauge Range

Range Min

Range Max

Flow Rate Decimal Places

0 0.0 0.00 0.000

Display Units

Per

VistaTouch

Navigation icons: Bell, Moon, Gear, Lock

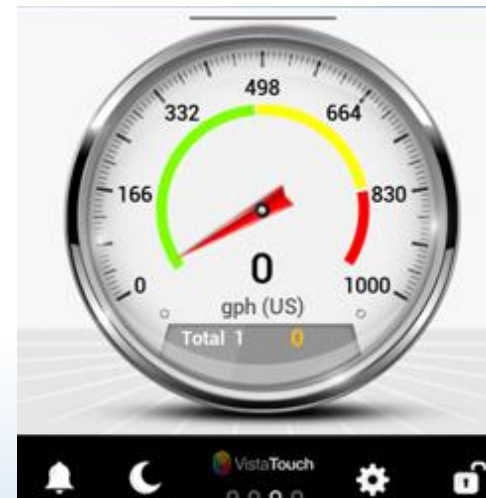
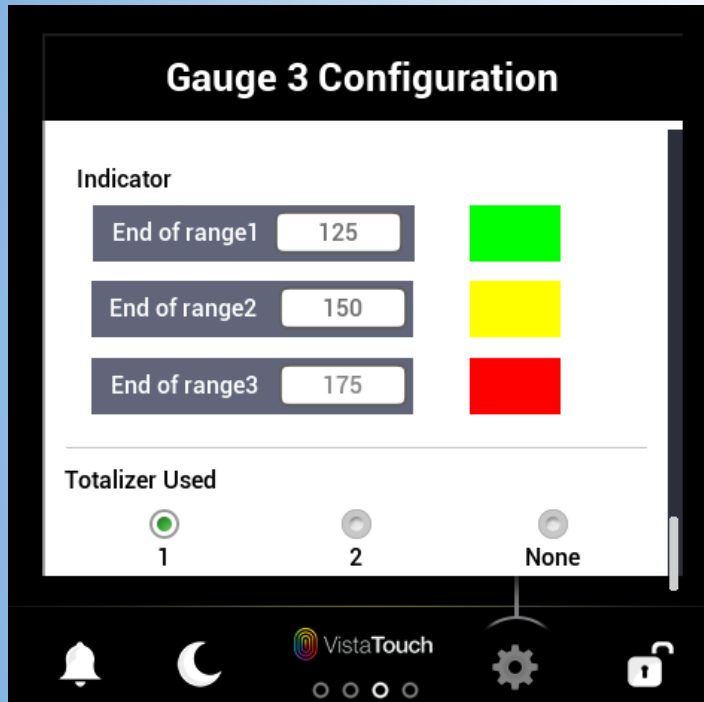
Vista Touch Flow Gauge Parameters

Indicator

- End of Range 1 – Enter the 1st range of measurement and color. This will show on the beginning of the displays graph. (green)
- End of Range 2 – Enter the 2nd range of measurement and color. This will show in the middle of the displays graph. (yellow)
- End of Range 3 – Enter the 3rd range of measurement and color. This will show on the last part of the displays graph. (red)

Totalizer Used

- Totalizer 1 – total of current job being run. (resettable)
- Totalizer 2 – total of all jobs ran. (resettable)
- None – No totalizer to show on display



Gauge Configuration

Each gauge can be configured independently. Changing a configuration on one gauge has no effect on any of other gauges. The sensor input configuration, the two totalizers and events are unaffected. This will show on the beginning of the displays graph. (green)

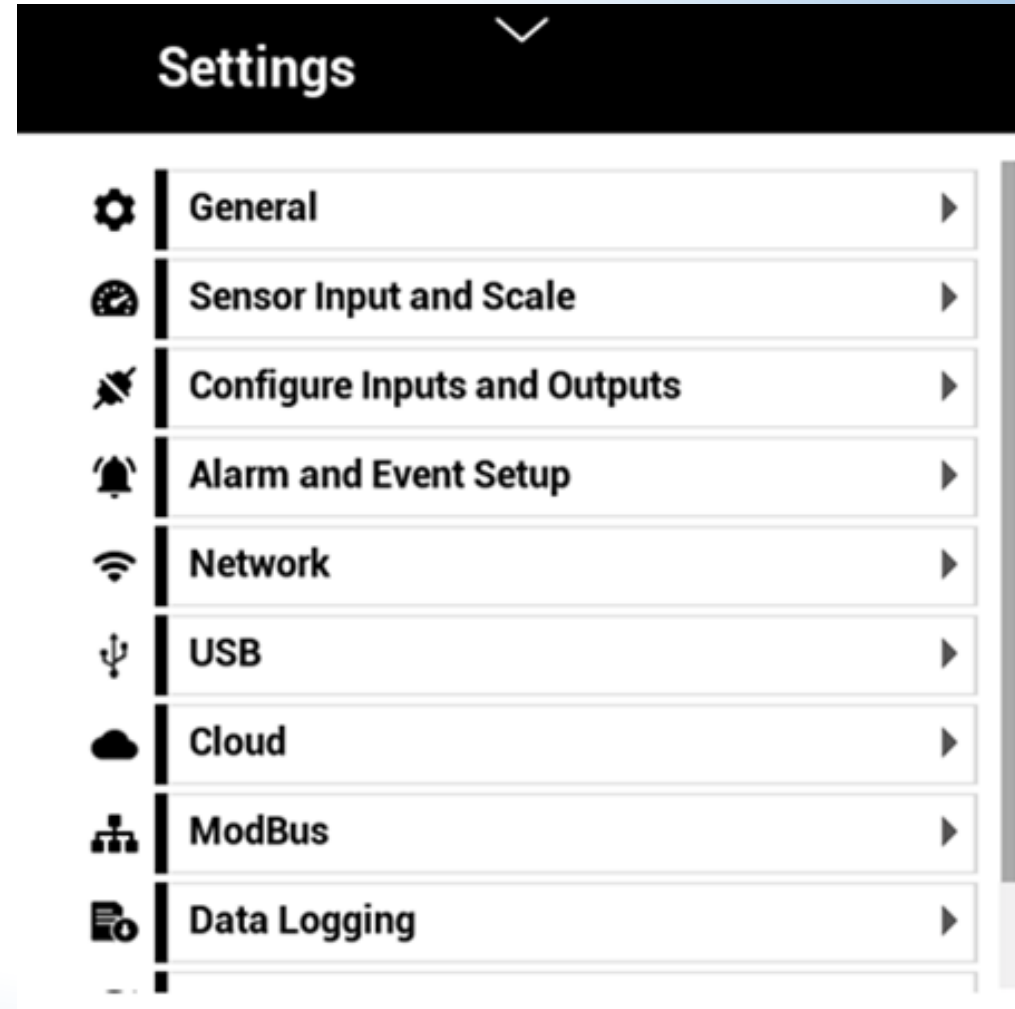
Changing the sensor input configuration does not affect any gauge, so after changing the input configuration, you should review the configuration of each gauge, especially the scale (gauges do not auto scale) to confirm they still make sense.

Each gauge can show either Total 1, Total 2 or no totalizer. The totalizer is always displayed in the same unit of measure as the gauge, and will always accumulate, regardless of whether it is being displayed or not.

If the display shows "Over" then the sensor is outputting a value that is too large for the meter (i.e. >10V, >20mA, >10Khz). If the display shows " - - - " then the value being shown is too large to display (>5 digits)

Settings

- General
- Sensor Input and Scale
- Configure Inputs and Outputs
- Alarm and Event Setup
- Network
- USB
- Cloud
- Modbus
- Data Logging
- Reset



General Settings

Change the Device Name

- Name your device

Model Number

- Name of the model of the device i.e., VT-PWR

Serial Number

- Serial number of your device

Software version

- Software version that is currently installed

Bootloader version

- Bootloader version that is currently installed

UX Version

- This is the current version of the User Interface

Mac-address

- Mac-address of your device

Flow Input Software Ver.

- Current version of the flow input software

Firmware updates

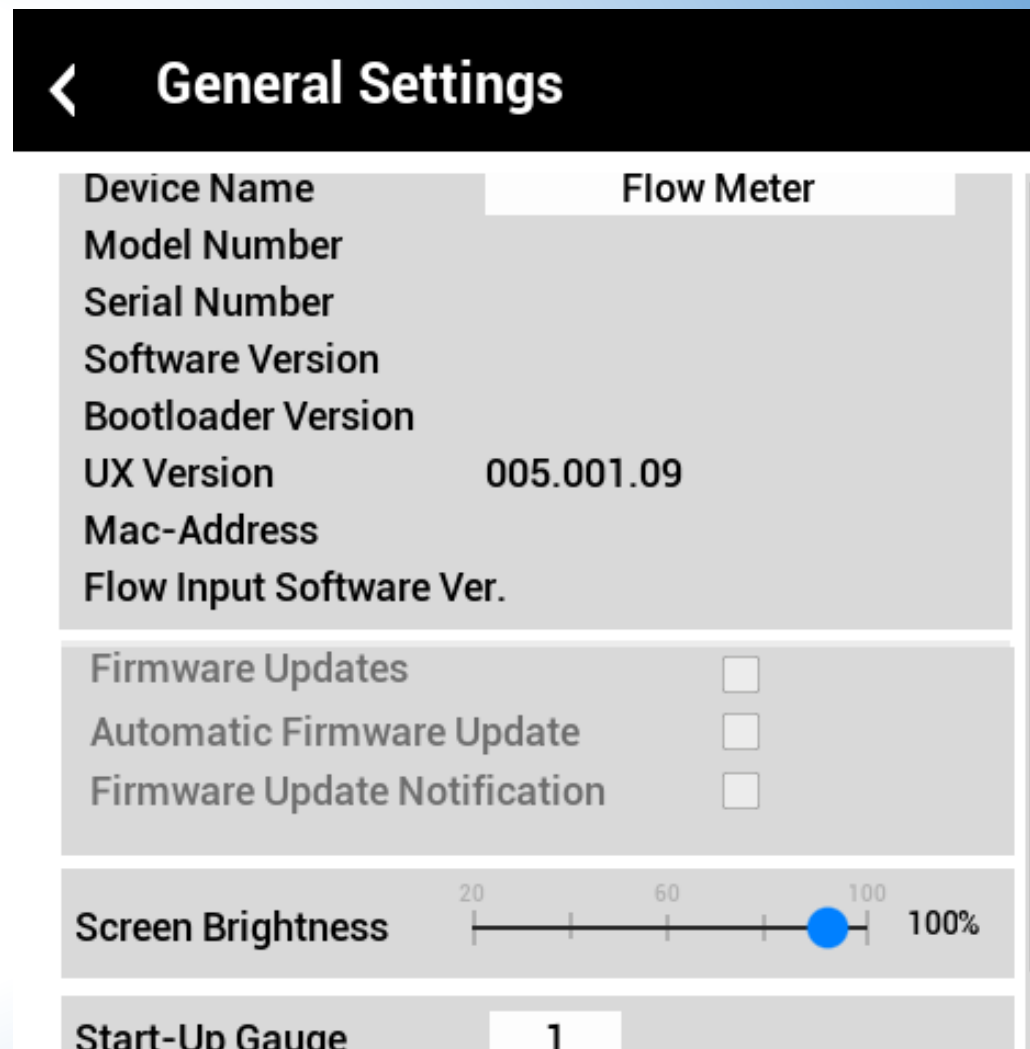
- Check to enable firmware updates
- Uncheck to disable firmware updates

Firmware update notifications

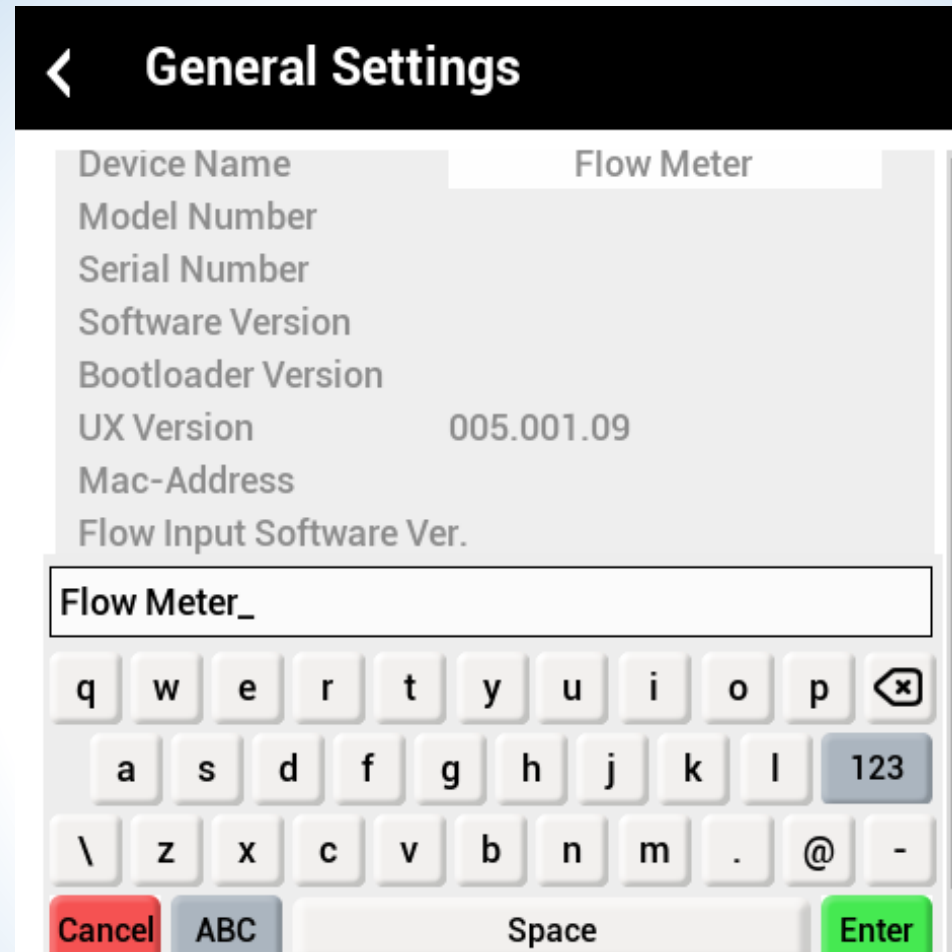
- Check to enable firmware update notifications
- uncheck to disable firmware update notifications

Screen Brightness (controls the brightness of the display)

Start-up gauge (allows the user to set the gauge to be displayed on startup)



Changing available names or settings on the screen



To change the settings or names, select the box that you wish to change, and a small keyboard will appear on the screen. Use the Del key to remove the current setting and then start typing your new name or setting. Hit the Enter key when finished.

Sensor Inputs and Scale

< Sensor Inputs and Scale

Select input

Voltage Current Pulse

Time Base Minute

Unit Of Measure US Gallon

Sensor Raw Value 0 Volts

Unit of Measure

- Liters
- Gallons(US)
- Gallons(UK)
- Fluid Oz(US)
- Fluid Oz(UK)
- Cubic Feet
- Cubit Meters

Time Base

- Second
- Minute
- Hour

Sensor Inputs and Scale

< Sensor Inputs and Scale

Select input
 Voltage Current Pulse

Time Base

Unit Of Measure

Sensor Raw Value Volts

Minimum Voltage Volts
Minimum Flow Rate LPS
Maximum Voltage Volts
Maximum Flow Rate LPS

- **Sensor Input (Voltage)**
 - **0-10VDC**
- **Minimum Voltage**
- **Minimum Flow Rate**
- **Maximum Voltage**
- **Maximum Flow Rate**

< Sensor Inputs and Scale

Select input
 Voltage Current Pulse

Time Base

Unit Of Measure

Sensor Raw Value MilliAmps

Minimum Current Milliamps
Minimum Flow Rate LPS
Maximum Current Milliamps
Maximum Flow Rate LPS

- **Sensor Input (Current)**
 - **4-20mA**
- **Minimum Current**
- **Minimum Flow Rate**
- **Maximum Current**
- **Maximum Flow Rate**

< Sensor Inputs and Scale

Select input
 Voltage Current Pulse

Time Base

Unit Of Measure

Sensor Raw Value Per Second

Pulse Input Pulses Per Gallon(US)
Zero Flow Value g/min (US)
Low Flow Cut off g/min (US)

- **Sensor Input (Pulse)**
 - **0-10KHz**
- **Pulse Input**
 - **Pulses Per**
- **Zero Flow Value**
- **Low Flow Cut off**

Input Setup Voltage

< Sensor Inputs and Scale

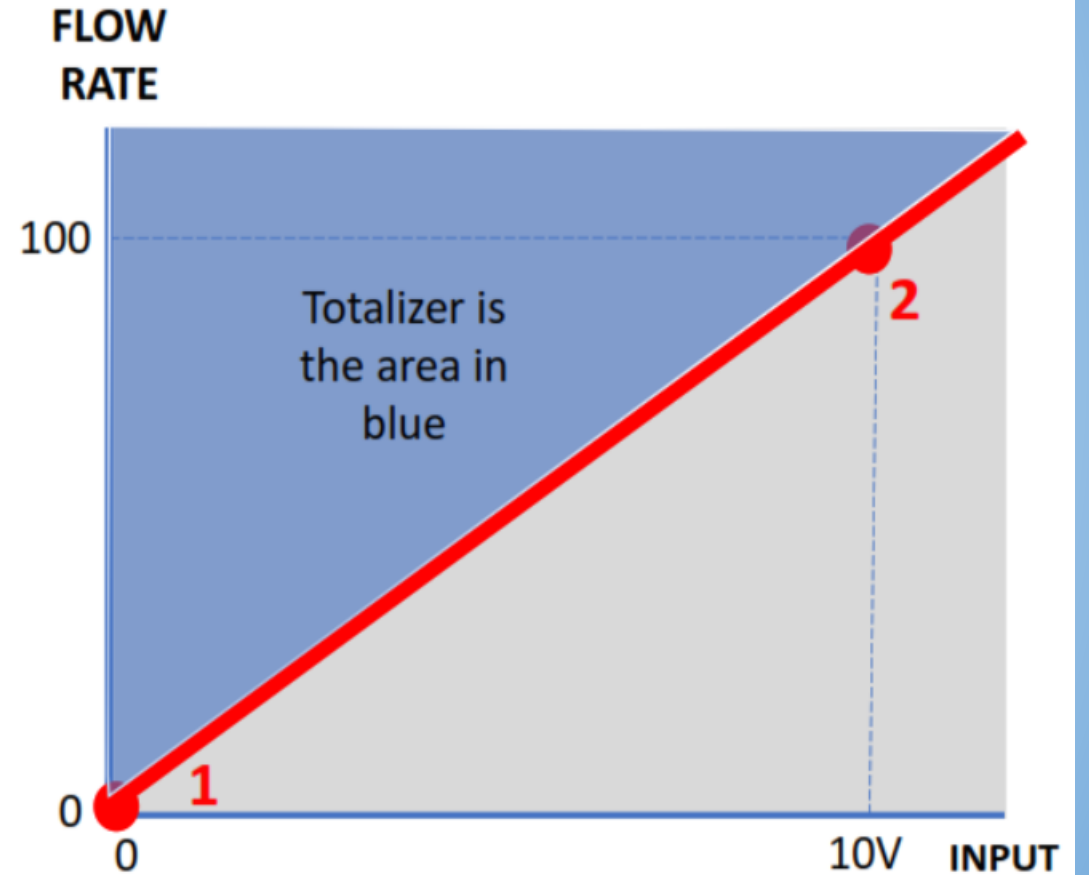
Select input
 Voltage Current Pulse

Time Base

Unit Of Measure

Sensor Raw Value Volts

Minimum Voltage	<input type="text" value="0"/>	Volts	1
Minimum Flow Rate	<input type="text" value="0"/>	LPS	
Maximum Voltage	<input type="text" value="10"/>	Volts	2
Maximum Flow Rate	<input type="text" value="100"/>	LPS	



Input Setup Current

< Sensor Inputs and Scale

Select input

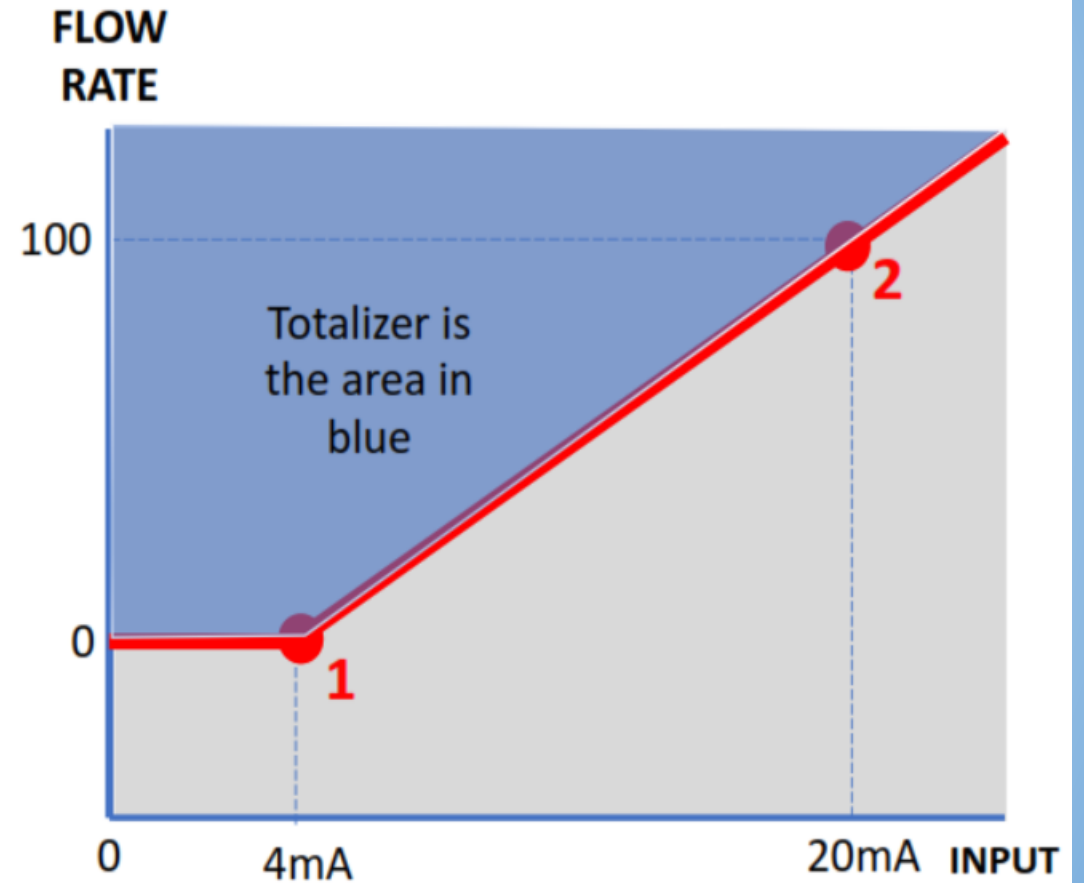
Voltage Current Pulse

Time Base

Unit Of Measure

Sensor Raw Value MilliAmps

Minimum Current	4.00	Milliamps	1
Minimum Flow Rate	0.00	LPS	
Maximum Current	20.00	Milliamps	2
Maximum Flow Rate	100	LPS	



Input Setup Pulse

< Sensor Inputs and Scale

Select input

Voltage Current Pulse

Time Base

Unit Of Measure

Sensor Raw Value Per Second

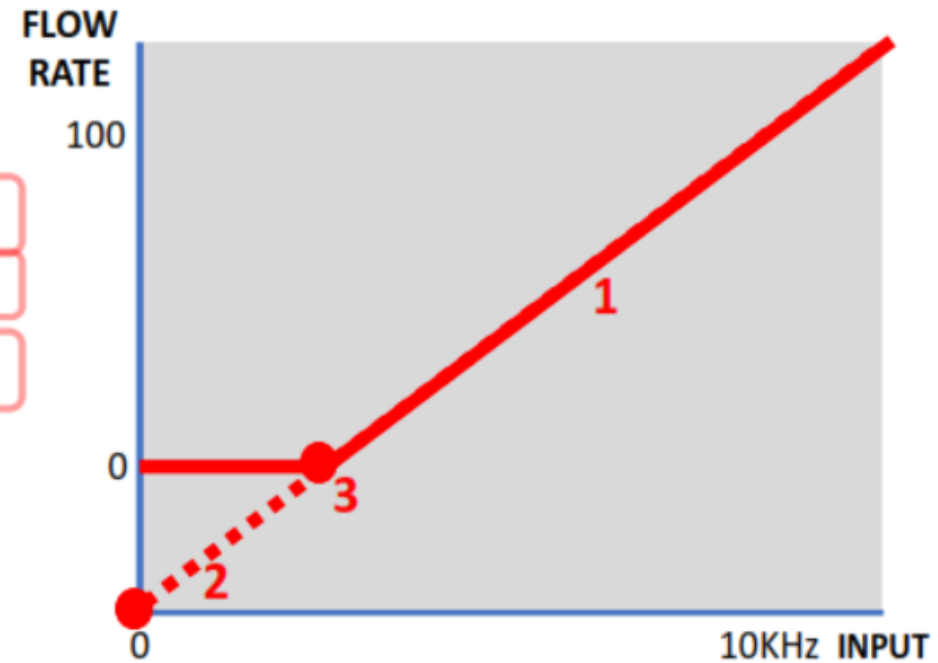
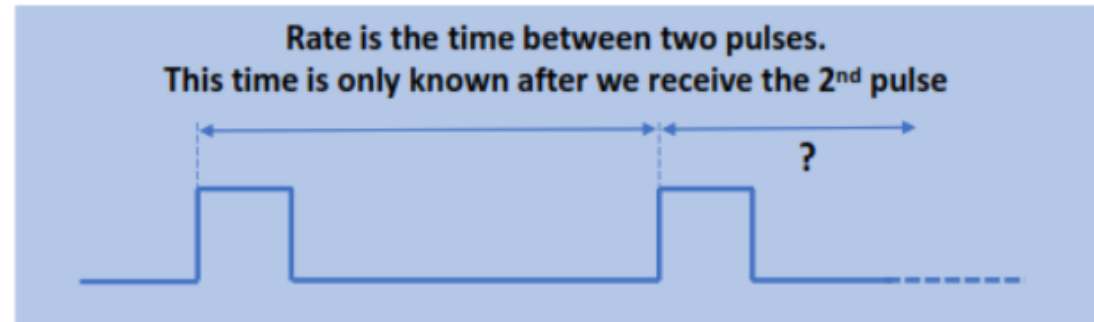
Pulse Input Pulses Per Gallon(US) **1** **Gain**

Zero Flow Value g/min (US) **2** **Offset**

Low Flow Cut off g/min (US) **3** **Cut-off**

For Pulse input: totalizer works by counting the input pulses. It does not use the calculated flow rate.

Minimum pulse period is 0.017 Hz (i.e. 1 pulse every 60 sec)



Input and Output Configurations

The screenshot shows a configuration interface with a black header bar containing a back arrow and the text 'Inputs and Output Config'. Below the header, there are several sections for configuration:

- IN1 name**: A text input field containing 'IN1'.
- IN2 name**: A text input field containing 'IN2'.
- RLY 1**: A section with a 'Test' button and a 'Name' input field containing 'RLY1'.
- RLY 2**: A section with a 'Test' button and a 'Name' input field containing 'RLY2'.
- ANALOG units**: A section with 'US Gallon' in a dropdown, 'Per', and 'Minute' in another dropdown.
- 4mA =**: A text input field containing '0' followed by 'LPM'.
- 20mA =**: A text input field containing '1000' followed by 'LPM'.

IN1 & IN2 name

- Name your inputs

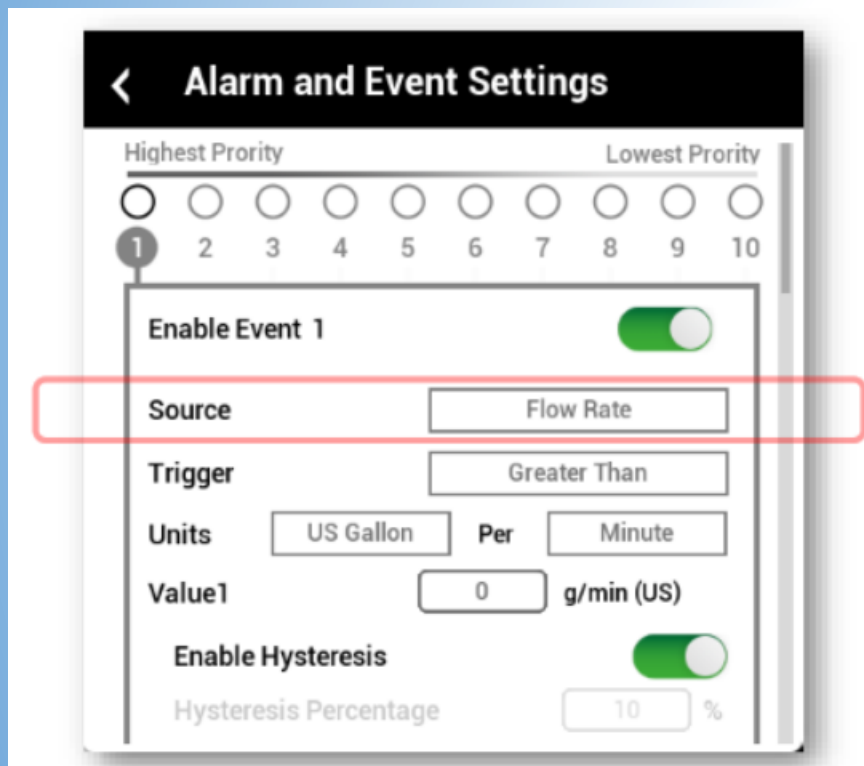
RLY 1 & RLY 2

- Name your relays

Select your 4-20mA Output Source

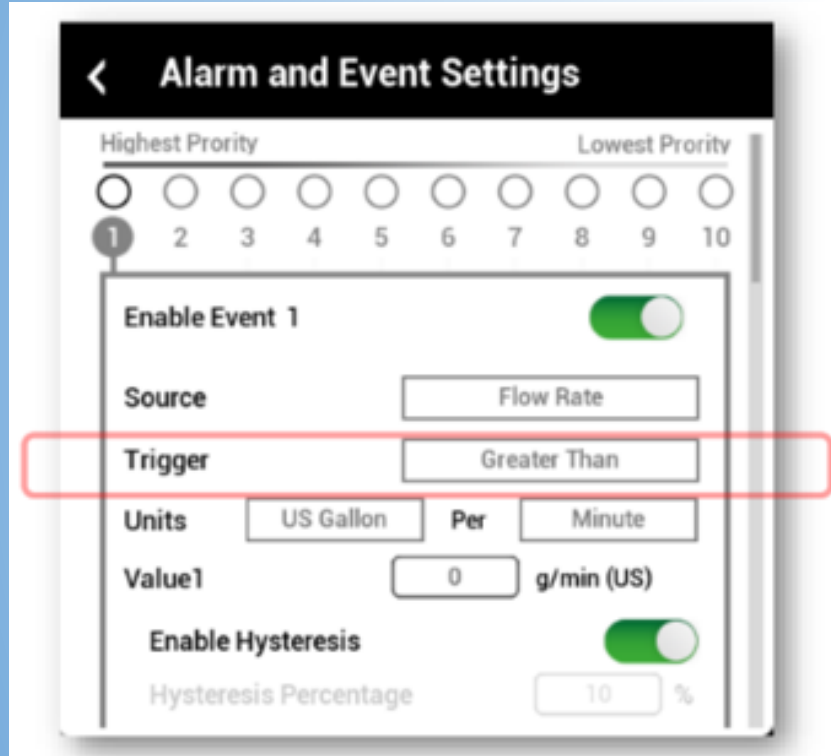
- Set your value for 4mA out (usually set at zero)
- Set your value for 20ma out (usually your max value)

Events & Alarms - Source



- Flow Rate – Set an alarm or event based on the flow rate value.
- Flow Total 1 – Set an alarm or event based on Totalizer 1.
- Flow Total 2 – Set an alarm or event based on Totalizer 2
- Digital Input 1 – Set an alarm or event based on digital input 1.
- Digital Input 2 – Set an alarm or event based on digital input 2.
- Raw Voltage – Set an alarm or event based on the Raw Voltage value.
- Raw Current – Set an alarm or event based on the Raw Current value.
- Raw Frequency – Set an alarm or event based on the Raw Frequency value.
- Cloud Connection – Set an alarm or event based on the status of the cloud connection.
- Network Connection – Set an alarm or event based on the status of the network connection.

Events & Alarms - Triggers



- **Greater Than** – Set an alarm or event based on a value greater than Value 1.
- **Less Than** – Set an alarm or event based on a value less than Value 1.
- **In between** – Set an alarm or event based on a value between Value 1 and Value 2.
- **Outside** – Set an alarm or event based on a value outside of Value 1.
- **Equal To** – Set an alarm or event based on a value equal to Value 1.
- **On** – Set an alarm or event based on the status of the cloud or network connection.
- **Off** – Set an alarm or event based on the status of the cloud or network connection.
- **Change** – Set an alarm when Value 1 changes

Events & Alarms - Units

Alarm and Event Settings

1 2 3 4 5 6 7 8 9 10

Enable Event 1

Source

Trigger

Units Per

Value1 g/min (US)

Enable Hysteresis

Hysteresis Percentage %

Hysteresis Level g/min (US)

Units of Measurement (usually set for the same parameter as the gauge setting)

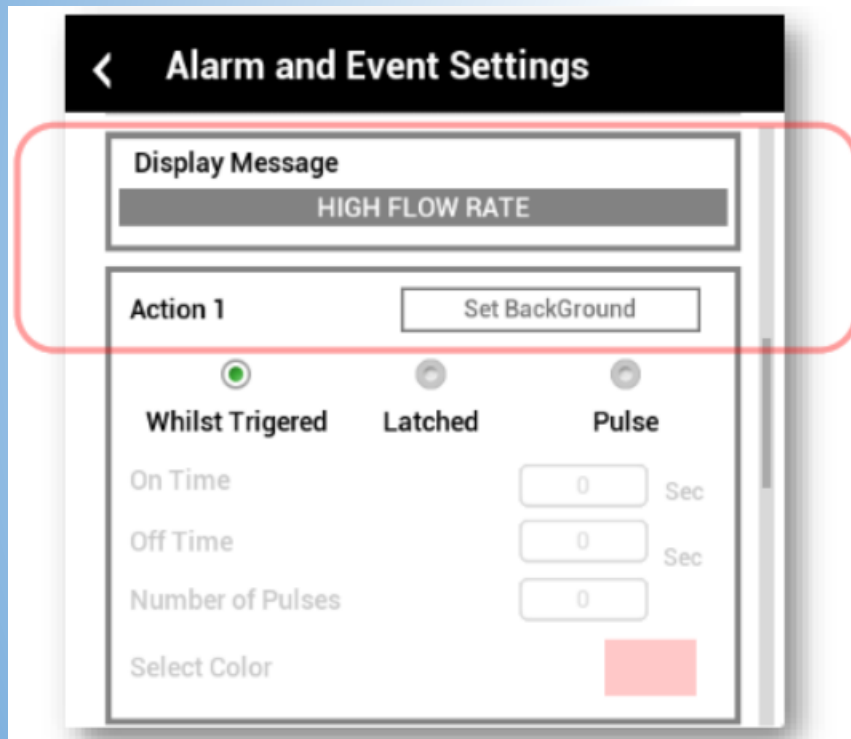
- Liters
- Gallons (US)
- Gallons (UK)
- Fluid Ounce (US)
- Fluid Ounce (UK)
- Cubic Feet
- Cubic Meters

Per (usually set for the same parameter as the gauge setting)

- Hours
- Minutes
- Seconds

Events & Alarms - Actions

- Display a message
- Set Background Color
- Clear Background Color
- Set Relay 1 – Change state of Relay 1
- Set Relay 2 – Change state of Relay 2
- Clear Relay 1 – Change Relay 1 back to previous
- Clear Relay 2 – Change Relay 2 back to previous
- Display Brightness – Change the brightness of the display
- Reset Total 1 – Reset totalizer 1
- Reset Total 2 – Reset totalizer 2



Event Duration

Alarm and Event Settings

Display Message
HIGH FLOW RATE

Action 1 Set Background

Whilst Triggered **Latched** **Pulse**

On Time Sec

Off Time Sec

Number of Pulses

Select Color

SOME EVENTS ALSO HAVE A DURATION:

WHIST TRIGGERED (MOMENTARY):

Action is performed whilst the trigger is valid and automatically stops as soon as the trigger is no longer valid - just like on current APMs.

LATCHED (INFINITE):

Action is latched and will continue until it is cleared by another event

PULSE (FLASH):

User selectable ON and OFF times as well as number of repeats.

NOTE: Setting repeat to zero means infinite

Network Settings

Network Connection Status

- Connected
- Not Connected

Enable DHCP

- Allows the device to pick up IP address, Subnet mask and Gateway automatically
- Unselect if you wish to enter the parameters manually (static)

DNS

- Shows the current DNS address

< Network Settings

Network connection status Not Connected

Enable DHCP

Host name

IP address . . .

Subnet mask . . .

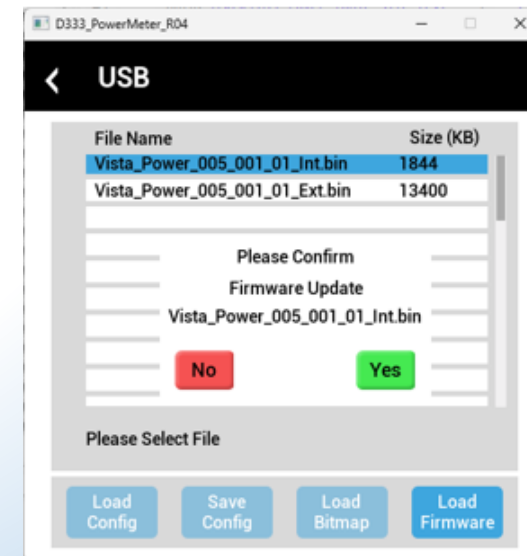
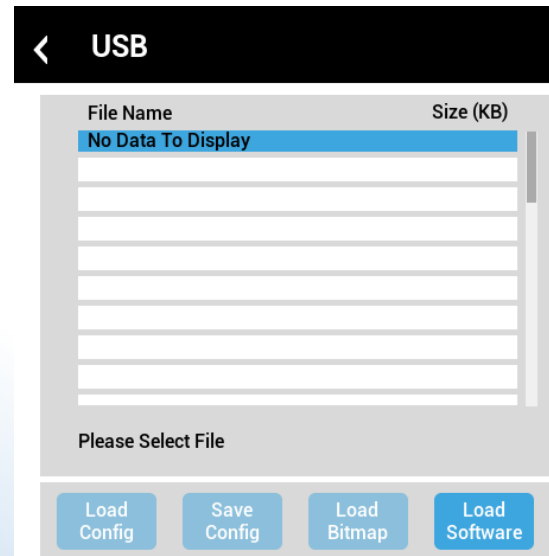
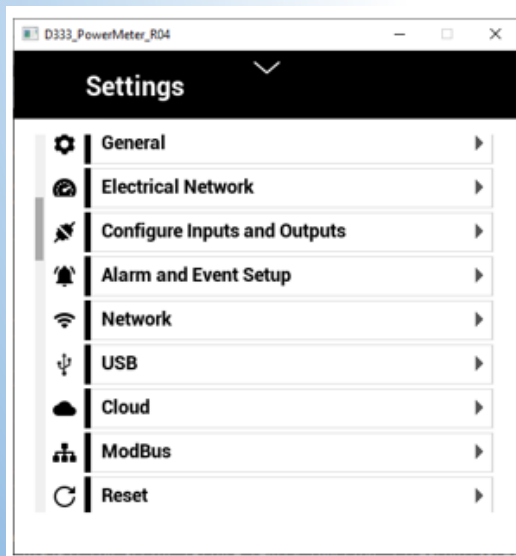
Gateway . . .

DNS . . .

Apply Static IP Setup

USB - Update to the latest software

- Download the latest software from <https://www.trumeter.com/resources/vt-software-download/>
- Unzip the file and copy both .bin files to a USB drive. (The files must be in the root folder.)
- Plug the USB drive into the Vista Touch meter.
- On the device, swipe up on the display to access the main “Settings” screen.
- Select the “USB” option.
- Select one of the files and “Load Software”.
- Select “Yes” to update the firmware.



Cloud Setup

Enable Cloud Connection

- Slider color green is enabled (default)

Website

- Shows the website address of the Trumeter Cloud

Model Number

- Model Name of your device

Serial Number

- Used to register your Vista Touch Product on the Trumeter Cloud

Username

- Shows the username that you setup on the Trumeter Cloud

Current Subscription Tier

- Shows the tier of the Trumeter Cloud that you are subscribed to

Subscription Renewal Date

- Shows the Renewal Date for your subscription to the Trumeter Cloud

Device Limit

- Shows the number of devices that you can monitor based on your subscription tier of the Trumeter Cloud

Devices Remaining

- Shows you how many more devices that you can add to the cloud based on the device limit

User Limit

- Shows the number of user accounts that you have based on the subscription tier of the Trumeter Cloud User Limit

Text Messages Remaining

- Shows the number of remaining text messages left for the current month.

Data Refresh Rate

- Shows the refresh rate of the Trumeter Cloud based on your tier subscription.

The screenshot shows a mobile application interface for 'Cloud Setup'. At the top, there is a back arrow and the title 'Cloud Setup'. Below this, there is a toggle switch for 'Enable Cloud Connection' which is currently turned on. Underneath, there are several input fields with their corresponding values: 'Web Site' is 'https://cloud.trumeter.com', 'Model Number' is 'VT-PWR', and 'Serial Number' is '12345678987454'. Further down, there are several more input fields for 'User Name', 'Current Subscription Tier', 'Subscription Renewal Date', 'Device Limit', 'Devices Remaining', and 'User Limit', all of which are currently empty.

Modbus Setup

Modbus TCP Setup

- Modbus Port – the port that the Vista Touch Meter will communicate with your system via TCP (502)
- Modbus Timeout – the amount of time the master will attempt to send a message.
- Please see the link below for step-by-step instructions to setup Modbus TCP.

Please see link below for step-by-step instructions to setup TCP communication on your preferred network.

<https://trumeter.helpscoutdocs.com/article/311-how-to-set-up-network-vista-touch-series>

Modbus RTU Setup

- Slave ID - the address of the device, it can take a value from 0 to 247
- Baud Rate – the speed of the data transmission
- Number of stop bits
- Allows time for the reception and processing of the current byte and preparation for the next byte
- Parity
 - Odd, Even or None

* Serial transmission setup requires the speed, the number of data bits, the parity, and the number of stop bits, which must match the device on the other side.

The screenshot shows the 'Modbus Setup' interface. At the top, there is a back arrow and the title 'Modbus Setup'. Below this, the 'Select modbus' section has two radio buttons: 'Modbus TCP' (which is selected) and 'Modbus RTU'. Underneath, the 'Slave ID' is set to '1'. The 'Modbus TCP setup' section contains two input fields: 'Modbus Port' set to '502' and 'Modbus Timeout' set to '1' with the unit 'Sec'.

The screenshot shows the 'Modbus Setup' interface. At the top, there is a back arrow and the title 'Modbus Setup'. Below this, the 'Select modbus' section has two radio buttons: 'Modbus TCP' and 'Modbus RTU' (which is selected). Underneath, the 'Slave ID' is set to '1'. The 'Modbus RTU setup' section contains three rows of settings: 'Baud rate' set to '9600', 'Number of stop bits' with radio buttons for '1' (selected) and '2', and 'Parity' with radio buttons for 'Odd' (selected), 'Even', and 'None'.

USB Data Logging

Data Logging Setup

- On the device, swipe up on the display to access the main “Settings” screen.
- Select the “Data Logging” option.

Start button

- Select the start button and a request to enter data log file name will appear.

Stop button

- Select the stop button to stop the data logging session.

Date/Time button

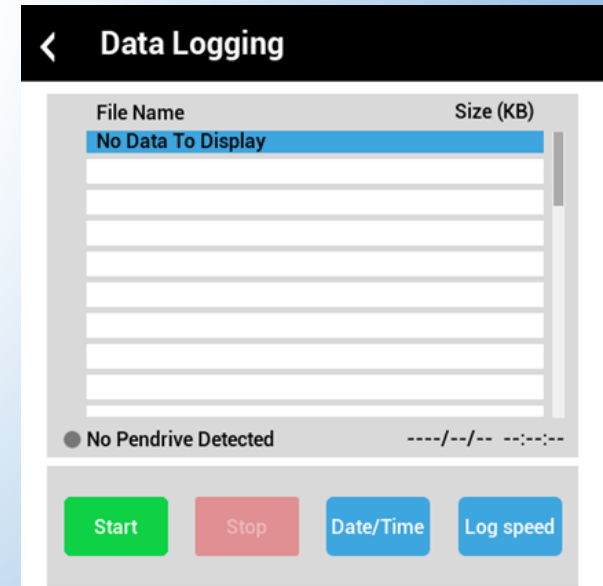
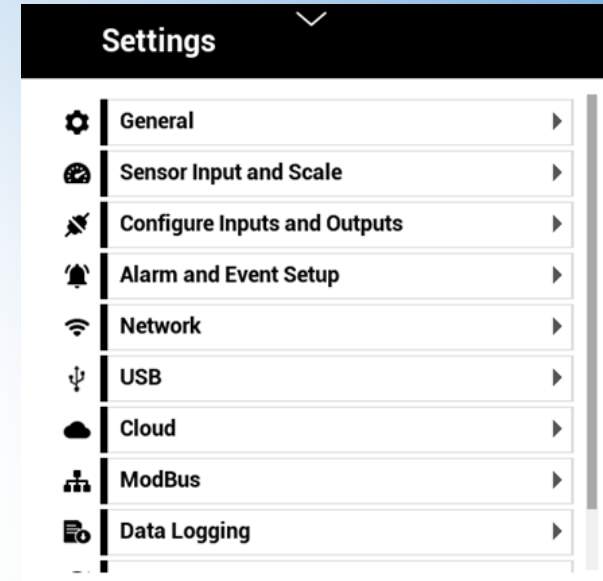
- Select the Date/Time button to enter or change the date and time.

Log speed

- Select the Log speed button to change the logging speed period.
(Choose a range from 10 to 60 seconds)

Please click the link below for step-by-step instructions to setup datalogging.

<https://trumeter.helpscoutdocs.com/article/274-data-logging>



Reset

Reset to Factory Defaults and Restart

- Resets the meter to factory defaults and restarts

Reset Totalizer 1

- Select Reset Totalizer 1 and click on Apply

Reset Totalizer 2

- Select Reset Totalizer 2 and click on Apply

Reset Totalizer 1 and 2

- Select Reset Totalizer 1 and 2 and click on Apply

Reset All Actions Set By Events

- This will reset any active actions or alarms that have been triggered

< Reset

Reset To Factory Defaults and Restart	Reset
Reset Totalizer 1	0000000 Gallons(US) <input checked="" type="radio"/>
Reset Totalizer 2	0000000 Gallons(US) <input type="radio"/>
Reset Totalizer 1 and 2	<input type="radio"/>
	Apply
Reset All Actions Set By Events	Reset



Deerfield Beach, FL USA | Manchester, England | Penang, Malaysia