

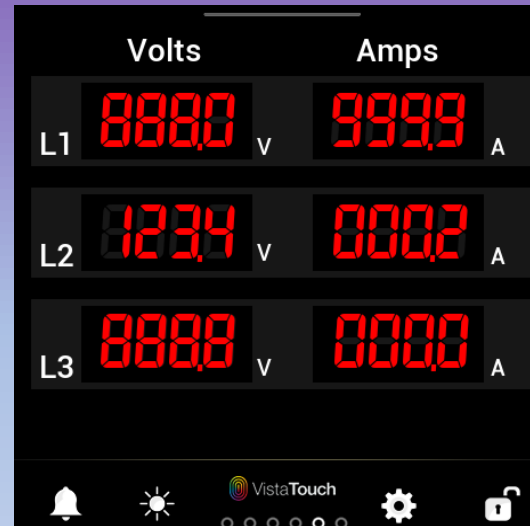
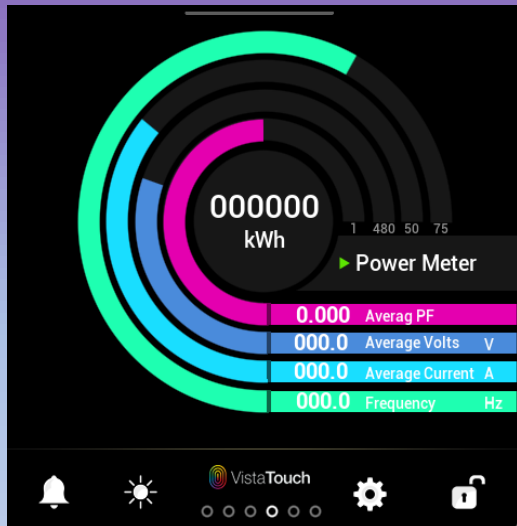
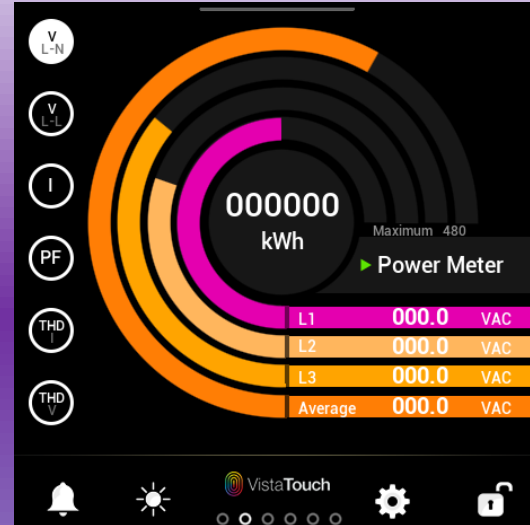
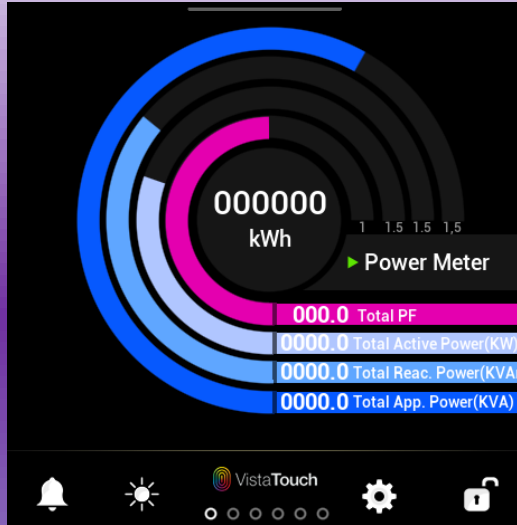


# VistaTouch

A New Dawn in  
Panel Meters is Here



# GAUGE SELECTION



Parameter	L1-N	L2-N	L3-N
Volt	000.0 Vac	000.0 Vac	000.0 Vac
Phase Ang V	100 Deg	100 Deg	100 Deg
Current	000.0 A	000.0 A	000.0 A
Phase Ang A	120 Deg	120 Deg	120 Deg
Pwr (Active)	000 W	000 W	000 W
Pwr (React)	000 VA	000 VA	000 VA
Pwr (App)	000 VAr	000 VAr	000 VAr
Power Factor	1.00	1.00	1.00
Voltage THD	100 %	100 %	100 %
Current THD	100 %	100 %	100 %

Frequency	00.0 Hz	Power Meter	
Line	Voltage	Totals	Power
L1-L2	000.0 Vac	Active	000 W
L2-L3	000.0 Vac	Apparent	000 W
L3-L1	000.0 Vac	Reactive	000 W
			Energy
			0.0 kW
			0.0 kVar
			0.0 kVA

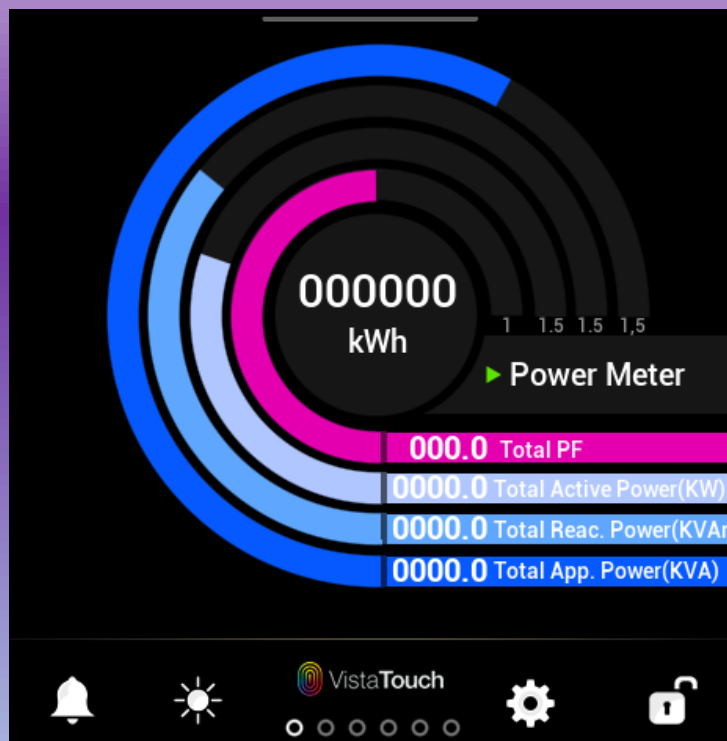
MIN	113.6V	L1-N	114.0V	MAX
	2.3A		2.3A	
MIN	113.6V	L2-N	114.0V	MAX
	2.3A		2.3A	
MIN	113.5V	L3-N	113.9V	MAX
	2.3A		2.3A	

VT-PWR Meter Reset All

Swipe Left or Right on the display screen to choose your gauge

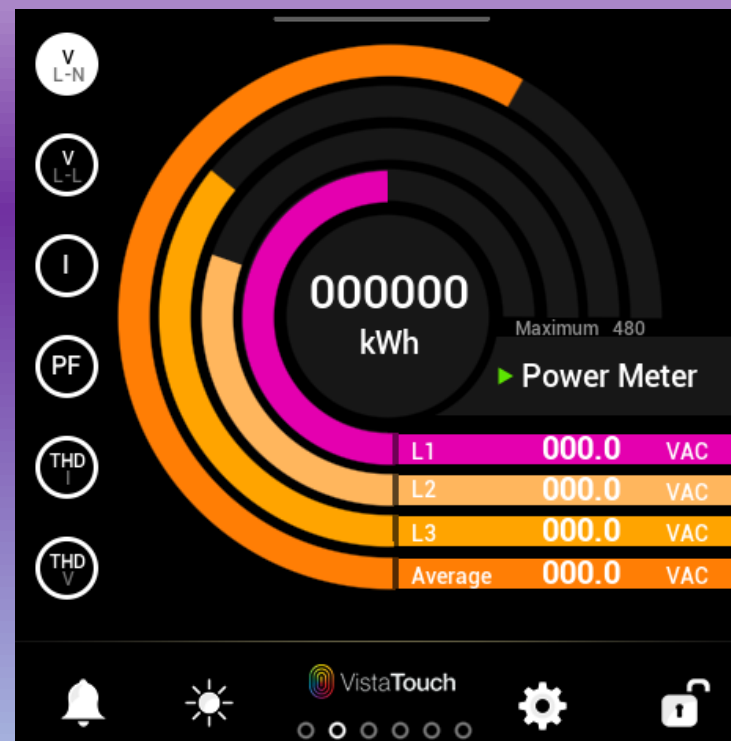
# DISPLAY GAUGES 1 & 2

## Racetrack Gauge 1



- Total Power Factor
- Total Active Power (KW)
- Total Reactive Power (K VAr)
- Total Apparent Power (KVA)

## Racetrack Gauge 2

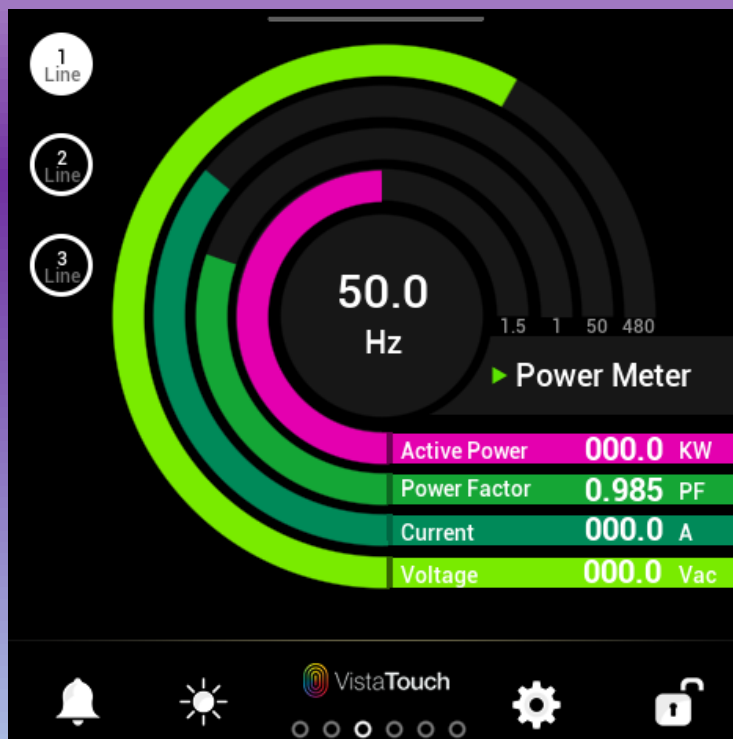


- Voltage L-N (L1, L2, L3, Average)
- Voltage L-L (L1, L2, L3, Average)
- Current (L1, L2, L3, Average)
- Power Factor (L1, L2, L3, Average)
- THD Current (L1, L2, L3, Average)
- THD Voltage (L1, L3, L3, Average)

\*selectable by the circles on the left side of display

# DISPLAY GAUGES 3 & 4

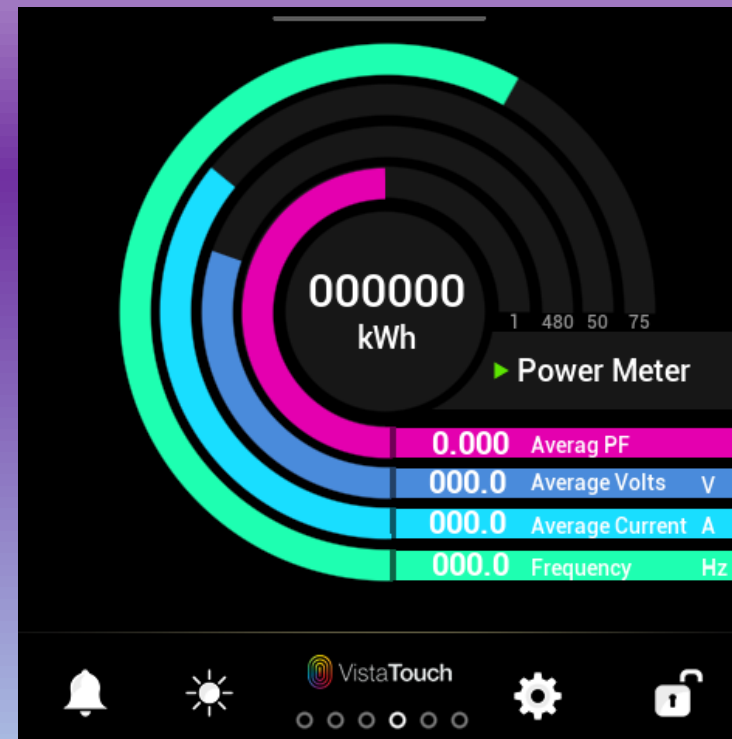
## Racetrack Gauge 3



- Active Power, Power Factor, Current, Voltage (L1)
- Active Power, Power Factor, Current, Voltage (L2)
- Active Power, Power Factor, Current, Voltage (L3)

\*selectable by the circles on the left side of display

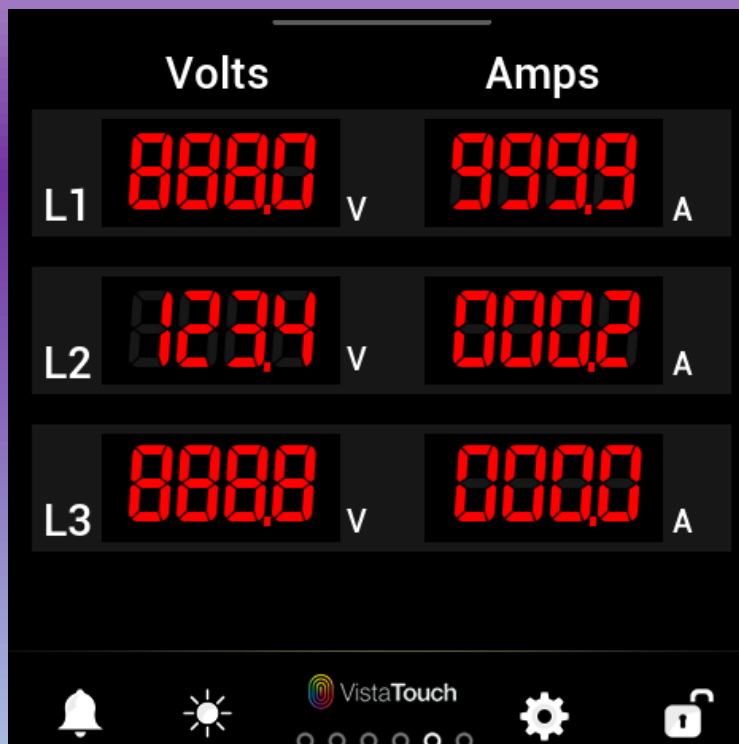
## Racetrack Gauge 4



- Average Power Factor
- Average Volts
- Average Current
- Frequency

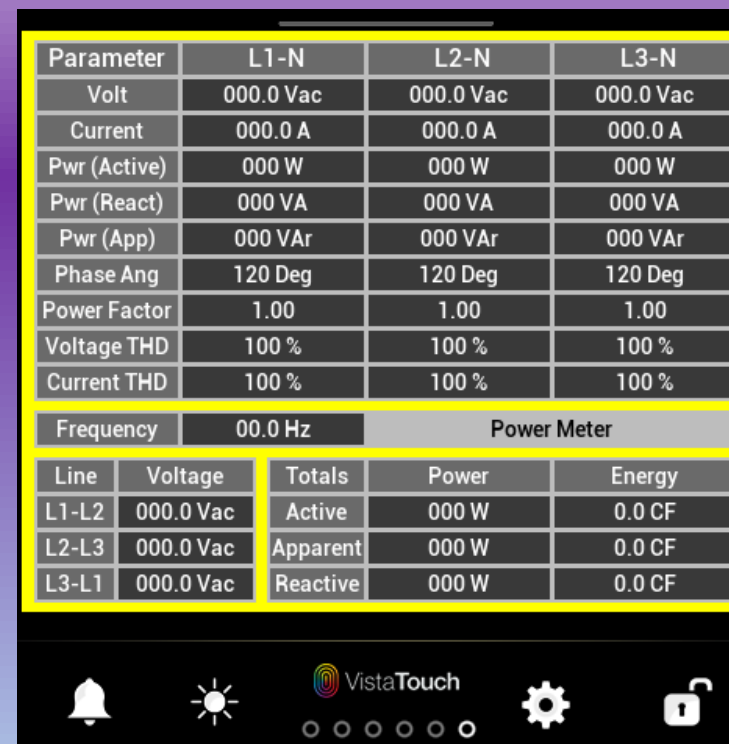
# DISPLAY GAUGES 5 & 6

## Gauge 5



- Voltage (L1, L2, L3)
- Current (L1, L2, L3)

## Gauge 6



- All measured parameters

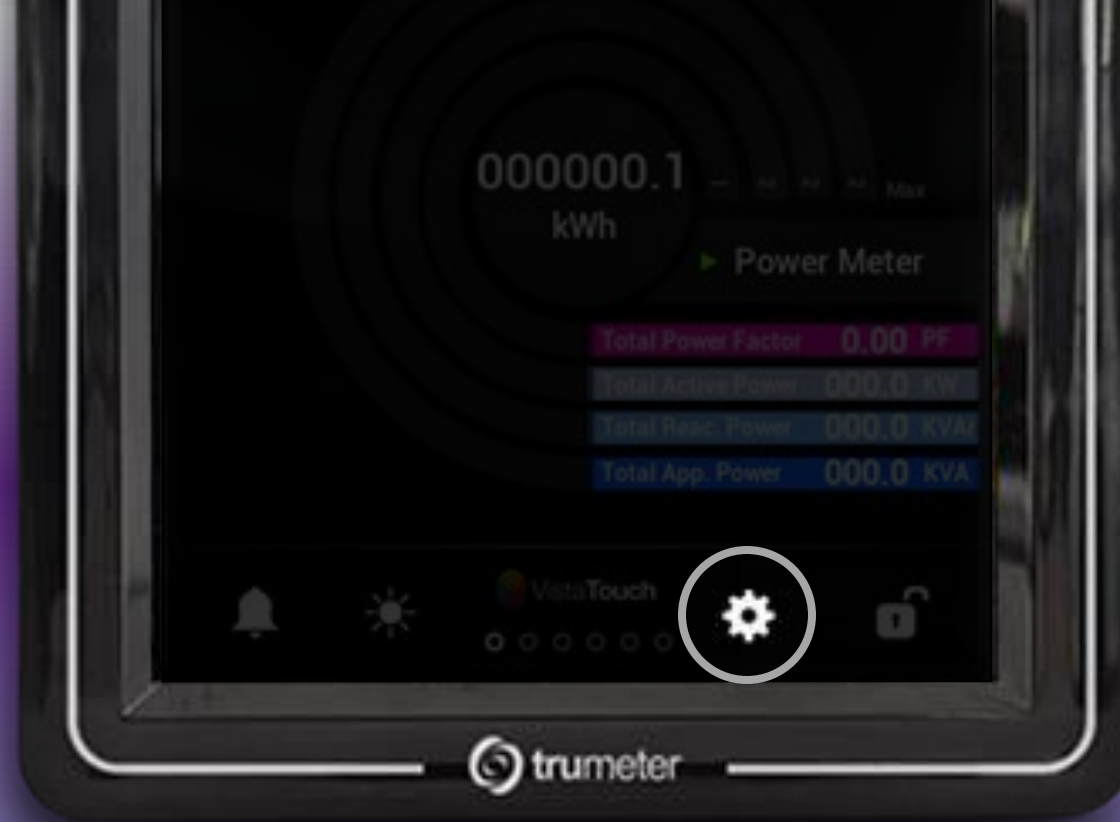
# DISPLAY GAUGE 7

Gauge 7



- Voltage MIN (L1-N, L2-N, L3-N)
- Current MIN(L1-N, L2-N, L3-N)

- Voltage MAX (L1-N, L2-N, L3-N)
- Current MAX (L1-N, L2-N, L3-N)



## VISTA TOUCH POWER METER

Click on the gear icon to open and change the settings of the specific gauge you are viewing

# GAUGES 1-4 PARAMETERS



# EVENTS & ALARMS - SOURCE

**Source** allows the selection of...

- L-L Voltage
- L-N Voltage
- Current
- Frequency
- Power Factor
- Active Power
- Apparent Power
- Reactive Power
- Active Energy
- Reactive Energy
- Apparent Energy
- Voltage THD
- Current THD
- Digital Input 1
- Digital Input 2
- Cloud Connection
- Network Connection



# EVENTS & ALARMS

Source also allows the selection of...



- Either L1:L2 or L1-N
- Either L2:L3 or L2-N
- Either L3:L1 or L3-N
- Instantaneous Maximum
- Instantaneous Minimum
- Instantaneous Average
- Total Power /Energy

# EVENT & ALARM TRIGGERS

Triggers can be set for...



- Greater than
- Equal to
- Less than
- Between
- ON
- OFF
- Outside

*Some triggers will be greyed out, depending on input selected*

# EVENT & ALARM ACTIONS

Scroll down to **Actions...**



# EVENT & ALARM ACTIONS

Actions can be configured to...

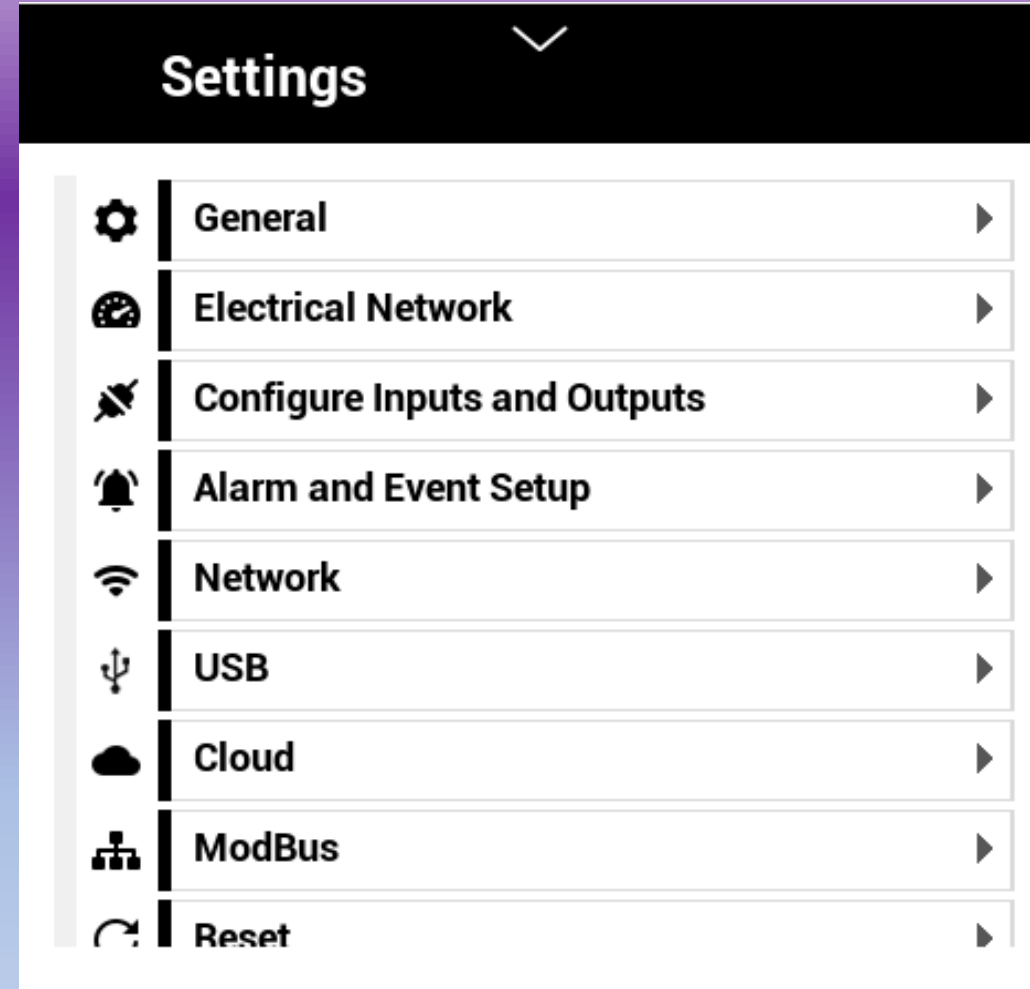
- Display a message
- Set background color
- Clear or set Relay 1
- Clear or set Relay 2
- Change display brightness
- Reset Total Energy



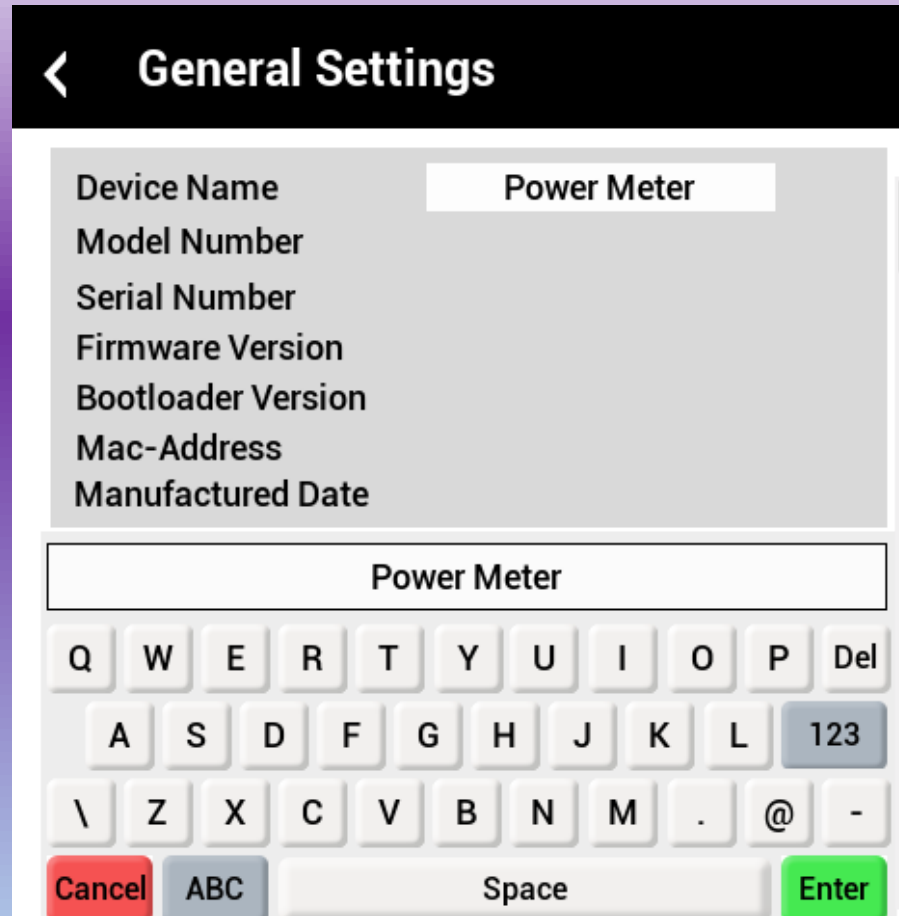
# SETTINGS

Swipe up on display to get to settings

- General
- Electrical Network
- Configure Inputs and Outputs
- Alarm and Event Setup
- Network
- USB
- Cloud
- Modbus
- Reset



# 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.

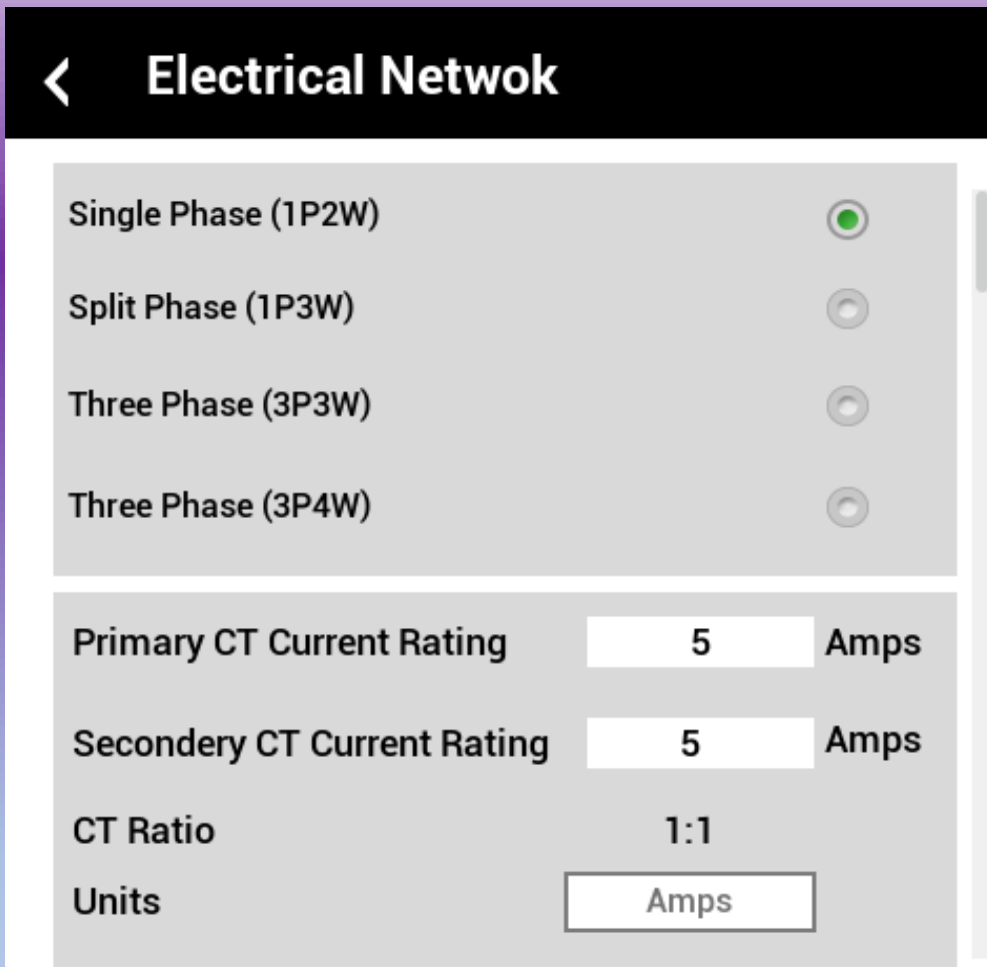
# GENERAL SETTINGS

- 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
- Firmware version**
  - ✓ Firmware version that is currently installed
- Bootloader version**
  - ✓ Bootloader version that is currently installed
- Mac-address**
  - ✓ Mac-address of your device
- Manufactured date**
  - ✓ Date of manufacture
- 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
- Start-up screen delay (allows for a delay on the startup screen)**
- Start-up gauge (allows the user to set the gauge to be displayed on startup)**

The screenshot shows the 'General Settings' screen with a back arrow on the left. The settings are organized into several sections:

- Device Information:** A list of device details including Device name (POWER METER), Model number (00000), Serial number (00000), Firmware version (00000), Bootloader version (00000), Mac-address (00:11:22:33:44:55), and Manufactured date (01/02/2022).
- Firmware Updates:** Three toggle switches, all of which are turned on (indicated by green checkmarks): Firmware updates, Automatic firmware update, and Firmware update notification.
- Start-up Settings:** Two settings with input fields: Start-up screen delay (set to 3) and Start-up gauge (set to 1). The unit 'Seconds' is shown to the right of the first setting.

# ELECTRICAL NETWORK SETTINGS



**< Electrical Network**

Single Phase (1P2W)

Split Phase (1P3W)

Three Phase (3P3W)

Three Phase (3P4W)

Primary CT Current Rating  Amps

Secondary CT Current Rating  Amps

CT Ratio

Units

- Network Type**
  - ✓ Single Phase (1P2W)
  - ✓ Split Phase (1P3W)
  - ✓ Three Phase (3P3W)
  - ✓ Three Phase (3P4W)
  
- Primary CT Current Rating**
  - ✓ This will be the max rating of the CT
  
- Secondary CT Current Rating (5A Max)**
  - ✓ This is the secondary rating of the CT and 5A is recommended when selecting a CT
  
- Units (annunciator)**

# INPUTS AND OUTPUTS CONFIGURATION SETTINGS

← Inputs and Output Config

IN1 Name

IN2 name

RLY 1  Name

RLY 2  Name

4mA-20mA Source

4mA =  Volts

20mA =  Volts

- 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)

# ALARM AND EVENTS SETTINGS

- L-L Voltage
- L-N Voltage
- Current
- Frequency
- Power Factor
- Active Power
- Apparent Power
- Reactive Power
- Active Energy
- Reactive Energy
- Apparent Energy
- Voltage THD
- Current THD
- Digital Input 1
- Digital Input 2
- Cloud Connection
- Network Connection

Alarm and Event Settings

Highest Priority Lowest Priority

1 2 3 4 5 6 7 8 9 10

Enable Event 1

Source

L-L Voltage L1-L2

Trigger Greater Than

Value1 0 Volts

Enable Hysteresis

Hysteresis Percentage 10 %

- Either L1:L2 or L1-N
- Either L2:L3 or L2-N
- Either L3:L1 or L3-N
- Instantaneous Maximum
- Instantaneous Minimum
- Instantaneous Average
- Total Power /Energy

- ❑ Source is selected by 2 variables
  - ✓ Select the source parameter on the left that you want to monitor
  - ✓ Then select the parameter on the right that you wish to monitor.

# NETWORK SETTINGS

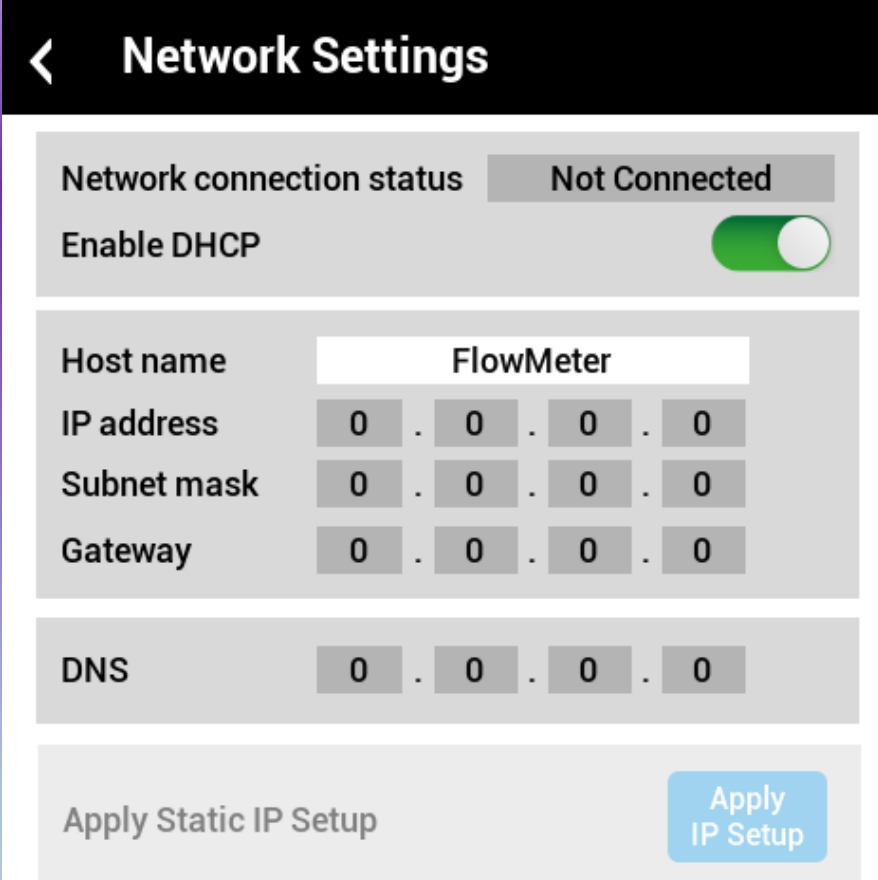
## Network Connection Status

- ✓ 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)

## Shows the current DNS address



The screenshot shows a mobile application interface for 'Network Settings'. At the top, there is a back arrow and the title 'Network Settings'. Below this, the 'Network connection status' is shown as 'Not Connected'. The 'Enable DHCP' toggle is turned on. The 'Host name' is 'FlowMeter'. The 'IP address', 'Subnet mask', and 'Gateway' fields are all set to '0 . 0 . 0 . 0'. The 'DNS' field is also set to '0 . 0 . 0 . 0'. At the bottom, there is a button labeled 'Apply Static IP Setup' and a blue button labeled 'Apply IP Setup'.

**Network Settings**

Network connection status: Not Connected

Enable DHCP:

Host name: FlowMeter

IP address: 0 . 0 . 0 . 0

Subnet mask: 0 . 0 . 0 . 0

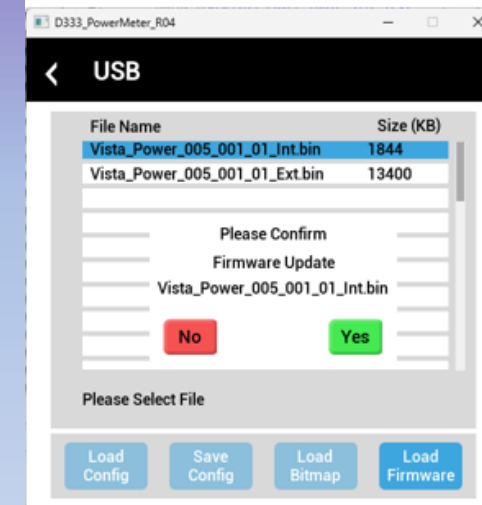
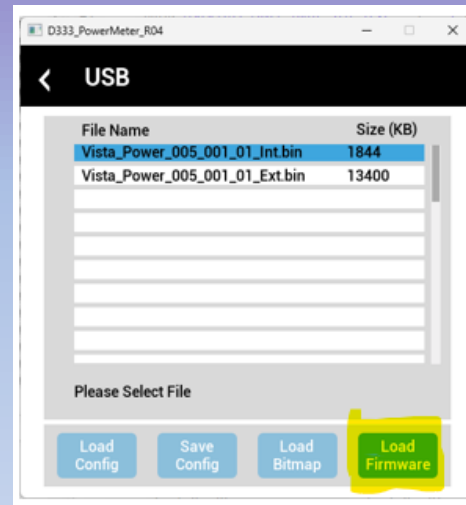
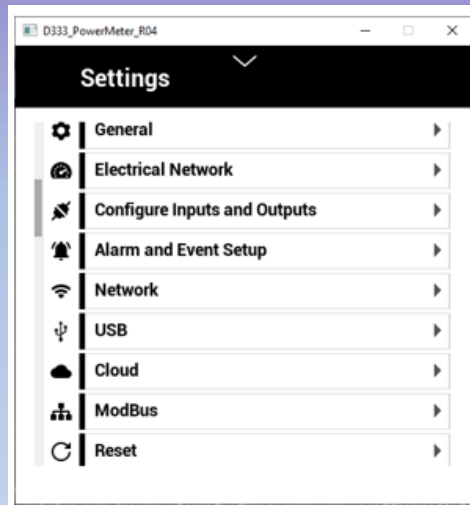
Gateway: 0 . 0 . 0 . 0

DNS: 0 . 0 . 0 . 0

Apply Static IP Setup

# USB UPDATE TO THE LATEST FIRMWARE

- ❑ Download the latest firmware 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 Firmware”.
- ❑ 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
- Serial Number**
  - ✓ Serial number of the Vista Touch Product
  - ✓ 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

The screenshot shows a 'Cloud Setup' screen with a back arrow on the left. The screen is divided into several sections. The first section has a toggle switch for 'Enable cloud connection' which is turned on (green). The second section contains three rows of text input fields: 'Web Site' with the value 'https://cloud.trumeter.com', 'Model Number' with 'VT-PWR', and 'Serial Number' with '12345678987454'. The third section contains five rows of text input fields: 'User Name', 'Current Subscription Tier', 'Subscription Renewal Date', 'Device Limit', and 'Devices Remaining'. The fourth section contains one row of a text input field labeled 'User Limit'.

# 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, there is a section titled 'Select modbus' with two radio buttons: 'Modbus TCP' (which is selected) and 'Modbus RTU'. Underneath, there is a section titled 'Modbus TCP setup' with two input fields: 'Modbus Port' set to '502' and 'Modbus Timeout' set to '100' with 'mSec' to its right.

The screenshot shows the 'Modbus Setup' interface. At the top, there is a back arrow and the title 'Modbus Setup'. Below this, there is a section titled 'Select modbus' with two radio buttons: 'Modbus TCP' and 'Modbus RTU' (which is selected). Underneath, there is a section titled 'Modbus RTU setup' with four input fields: 'Slave ID' set to '1', 'Baud rate' set to '9600', 'Number of stop bits' with '1' selected (radio button), and 'Parity' with 'Odd' selected (radio button).

# DATA LOGGING SETUP

## 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

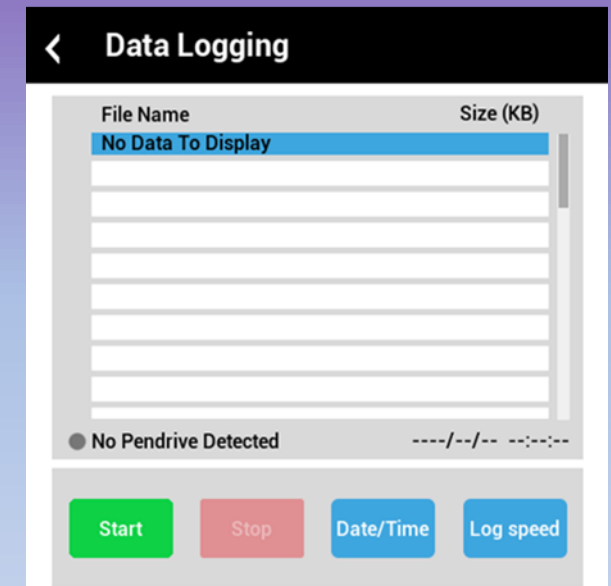
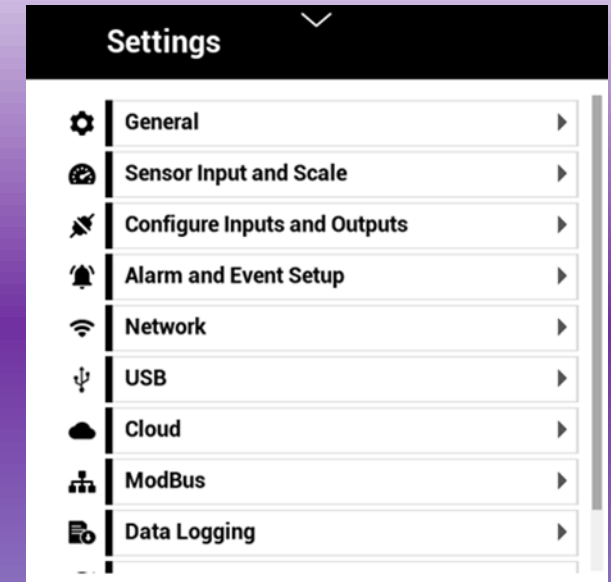
- Select the Date/Time button to enter or change the date and time.

## Log speed

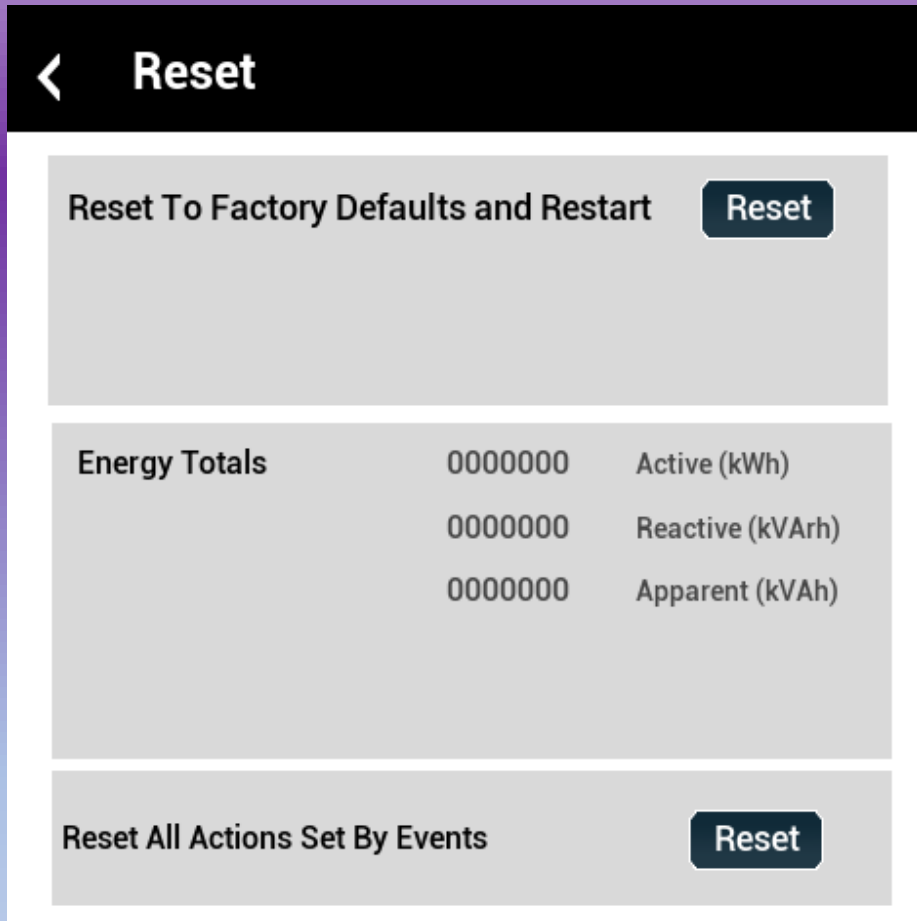
- Select the Log speed button to change the logging speed period.  
(Choose a range from 10 to 60 seconds)

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

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



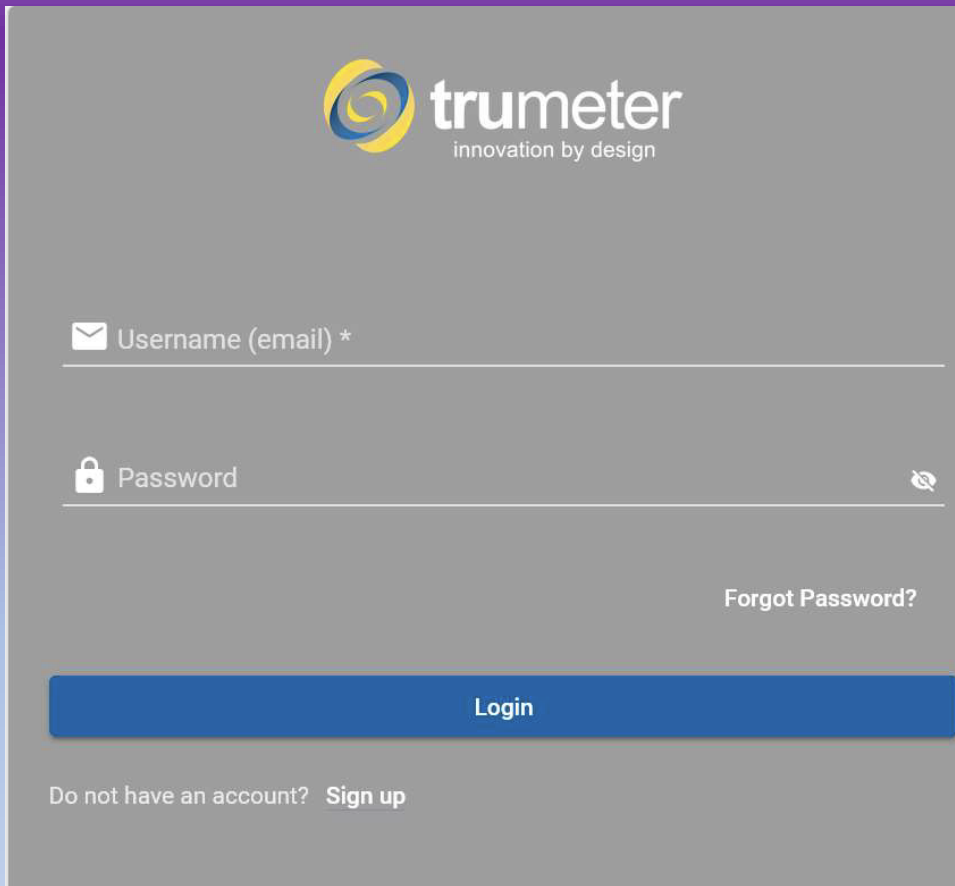
# RESET



- Reset to Factory Defaults and Restart**
  - ✓ Resets all the settings within the Vista Touch Power meter to the defaults and restarts the meter
- De-Register Cloud**
  - ✓ Removes the device from the Trumeter Cloud
- Reset Energy Totals**
  - ✓ Resets the Active Power (kWh) totalizer
  - ✓ Resets the Reactive Power (kVArh) totalizer
  - ✓ Resets the Apparent Power (kVAh) totalizer

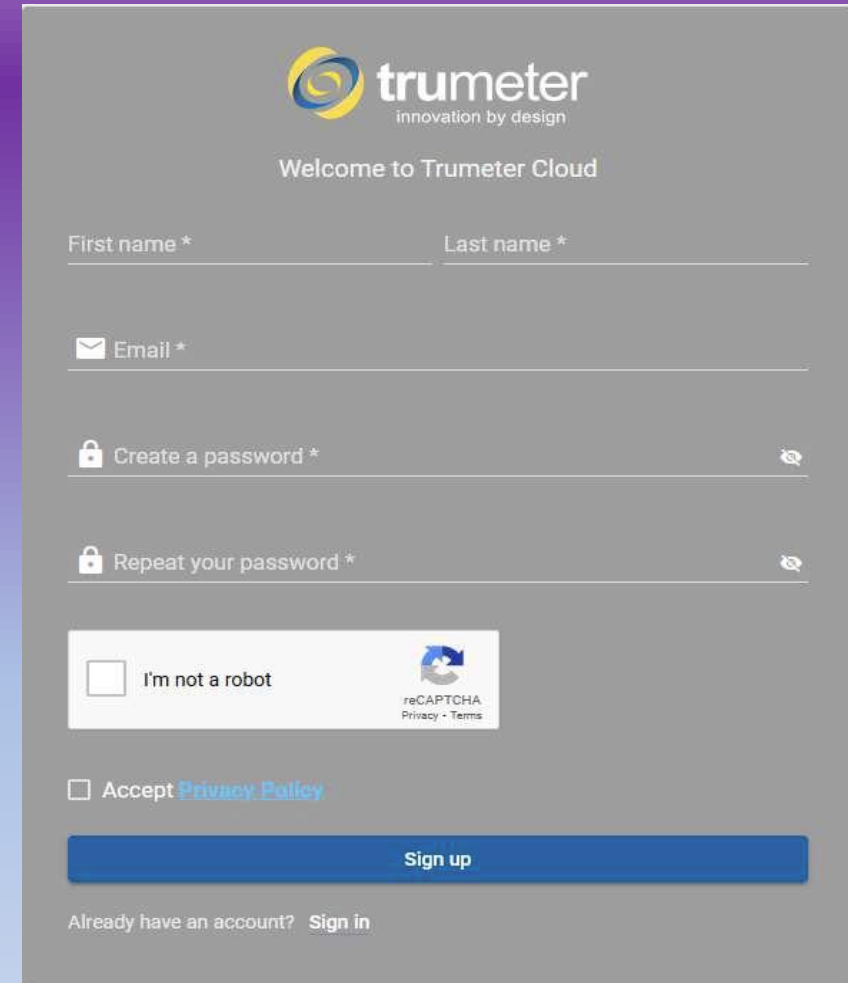
# CREATE AN ACCOUNT ON THE TRUMETER CLOUD

- ✓ Navigate to <https://cloud.trumeter.com>
- ✓ Click the Sign-Up link at the bottom of the page



The image shows the login page for Trumeter Cloud. At the top, there is the Trumeter logo with the tagline "innovation by design". Below the logo, there are two input fields: "Username (email) \*" and "Password". The password field has a lock icon and a toggle for visibility. To the right of the password field is a link for "Forgot Password?". At the bottom, there is a blue "Login" button and a link for "Do not have an account? Sign up".

- ✓ On the Sign-Up page, complete all required information



The image shows the sign-up page for Trumeter Cloud. At the top, there is the Trumeter logo with the tagline "innovation by design" and the text "Welcome to Trumeter Cloud". Below this, there are four input fields: "First name \*", "Last name \*", "Email \*", and "Create a password \*". The password field has a lock icon and a toggle for visibility. Below the password field is another input field for "Repeat your password \*" with a lock icon and a toggle for visibility. At the bottom, there is a checkbox for "I'm not a robot" with a reCAPTCHA logo and links for "Privacy" and "Terms". Below this is a checkbox for "Accept Privacy Policy" and a blue "Sign up" button. At the very bottom, there is a link for "Already have an account? Sign in".



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