DCon

Industrial IoT Connectivity & Controls

VTL Quick Start Guide

Technical Documentation

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VTL™ Quick Start Guide

Thank you for purchasing VTL! Your tanks now have a 24/7 Visual Tank Level presence.

In the Box

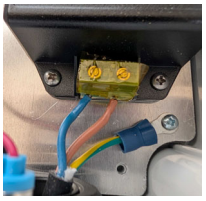
- VTL Controller – With Power Supply
- LED Interface Cable (for LED Bars)
- Base LED Bar (5ft Bar with 3 ft LEDs)
- LED Bars per Order (5ft Bars with 5ft LEDs)
- 2 Installed Rare Earth Extra Strong Magnets for easy Installation

Figure 1 VTL Controller

Optional

- Sensor with Connector and Cable
  - The sensor will come with cable and connector ready to plug into the SENSOR port on your VTL
  - Should you wish to order your own sensors you will need to order the SP21 Male Connectors (Figure 2) for plugging into the VTL controller.
  - See VTL User Guide for the Wiring Diagram

Figure 2 Male Sensor Connector



Caution: DO NOT remove the tape covering on the power supply, possible shock point.

VTL Sensor Installation

- ***Ensure all site safety guidelines are followed before installing the equipment.***
- Connect the 6-pin sensor connector to the VTL's 6-pin bulkhead connector.
- Install the sensor into the tank to initiate monitoring.

LED Light Bar Installation

- Connect the 3-pin connector of the LED interface cable to the VTL.
- Attach the other end of the interface cable to the base LED bar (5 ft bar with 3 ft LEDs).
- Secure the base LED bar to your tank, then connect the additional LED bars to the tank by linking each section to the previous one using the LED connectors. Ensure all connectors are properly aligned and securely attached.

Tank & LED Configuration Using Web Application

- To communicate with the VTL and properly configure it, connect to the VTL via WiFi using a phone or computer.
- Once connected open your browser and type *vtl.local*.
- Note: While connected to the VTL via WiFi, you will temporarily lose internet connectivity until you disconnect from the VTL.
- If *vtl.local* does not work, you can alternatively connect by entering *192.168.4.1* in your browser.

The VTL-1500 web app enables you to configure the basic functions of the VTL, and Light Bars. Use the provided code to view a live web application installation or click the link to access the page directly. click this link

Figure 4 - Live Installation

Tank Configuration

These are some of the more popular settings for the VTL Web App. For detailed information check our documentation page for the VTL Web Application Users Guide. Documentation Link

1. Tank Height: Specifies the height of the tank in Ft. and In.
2. Tank Capacity Units: Specifies the tank capacity units (gal, bbl, …)
3. Tank Capacity @ 100%: Specifies the maximum tank capacity (based on the units specified in item 2)
4. Tank Capacity @ 0%: Specifies the minimum tank capacity (based on the units specified in item 2)
5. Specific Gravity: Specifies the specific gravity of the product inside the tank
6. Tank Sensor Offset: Specifies how far off the bottom of the tank the sensor is installed
7. Tank Sensor Max PSI: Specifies the maximum PSI for the tank sensor
8. Input Sensor: Specifies the max/min for the tank sensor (mA or Volts)
9. Critical High Flashing (%): Specifies the percent at which LEDs will change to flashing red
10. High Level (%): Specifies the percent at which LEDs will change to red
11. Low Level (%): Specifies the percent at which LEDs will change to red/amber
12. Critical Low Flashing (%): Specifies the percent at which LEDs will change to flashing red/amber
13. Product Color: Specifies the LED color for the tank level
14. Marker Color: Specifies the LED color for the 0%/25%/50%/75%/100% markers
15. Low Color: Specifies the LED color if the tank level falls below the low level % Red/Amber
16. Sensor Error Color: Specifies what color the LEDs will flash if a sensor error occurs
17. DIP SW2: (Read-Only) Displays how DIP Switch 2 is set
18. Base Segments: Specifies the number of 1 meter LED Strip segments
19. Display Segments: Specifies the number of 1.5 meter LED Strip segments
20. HMI: Specifies if there is an HMI enabled. The external HMI will display tank readings
21. Interface Mode: If enabled, the LEDs will only display tank level line instead of all LEDs up to the tank level
22. Flash ALL LEDs @ CritHigh: Causes ALL LEDs to flash when the critical high % is reached instead of only the LEDs above the threshold
23. Flash ALL LEDs @ CritLow: Causes ALL LEDs to flash when the critical % is reached instead of only the LEDs below the threshold
24. LEDs ON via WiFi: If enabled, the LEDs will only come on if a user is connected to the VTL over WiFi
25. REFRESH: Reads all configuration values from the VTL
26. SAVE CONFIG: Saves all configuration values to the VTL

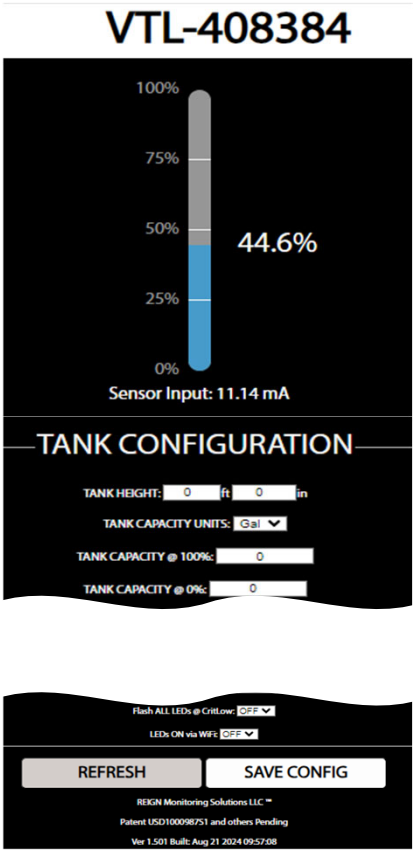


Figure 5 Sample of Web App

For additional questions or support, please call the number below or email support@reignrmc.com