



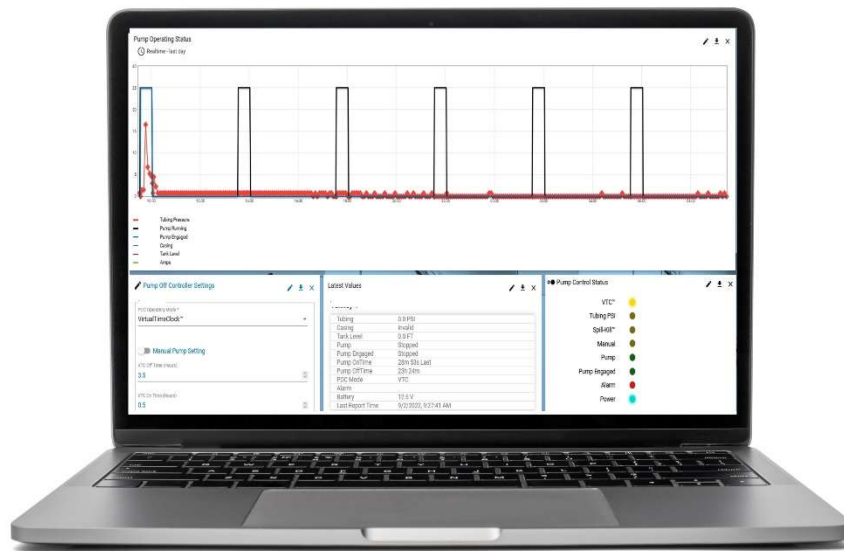
Industrial IoT Connectivity & Controls

DCon Dashboard User Guide

Technical Documentation

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DCon — an RMC brand. This document is being rebranded; technical content remains current.



ReignCloud Dashboard – User Guide

Overview

ReignCloud Dashboard

The **ReignCloud Dashboard** is a powerful cloud-based platform designed for real-time, remote monitoring of tanks and critical infrastructure across a wide range of industries. Whether overseeing oil sites, municipal water systems, or other remote facilities, ReignCloud delivers constant level monitoring and system visibility from anywhere with an internet connection. The intuitive interface allows users to track tank levels, receive alerts, and analyze performance trends—all in one centralized dashboard. With ReignCloud, operators gain peace of mind through reliable, 24/7 data access, helping ensure operational efficiency, safety, and regulatory compliance.

To access your **ReignCloud Dashboard**, you'll need a **user ID and password**, which can be provided by the Reign Support team (833-467-3446). Once you have your credentials, visit <https://reignrmc.net> and log in. This will take you directly to your organization's customized main dashboard.

Process

At Reign, we understand that every operation is unique, that's why each **ReignCloud Dashboard** is customized to fit the specific needs of our customers. During onboarding, every ReignCloud user receives personalized training to ensure they can confidently navigate and utilize their dashboard. For customers seeking tailored reporting, a dedicated Reign Support specialist will work directly with you to identify the exact data and insights you need. Our team will then build and integrate these custom reports into your dashboard, complete with clear instructions on how to run and download them. This personalized approach ensures you get the most value and visibility from your monitoring system.

To set up your ReignCloud Dashboard effectively and ensure it delivers the insights you need, please provide the following information:

1. Data Points & Source Information

List each data point you want displayed on the dashboard (e.g., tank level, pump status, flow rate).

- **Specify the data source:**
 - Is the data coming from an analog or digital signal?
 - Which port or input channel is the data connected to (Example AIN1, AIN2, DIN1, DIN2 etc.)?
 - For digital inputs, indicate:
 - Does the value of "1" mean ON or OFF?

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2. Tank Level Display Preferences

- **Select your preferred unit of measurement for tank levels:**
 - Barrels (bbl)
 - Gallons (gal)
 - Feet (ft)
 - Inches (in)

3. Alert Thresholds & Conditions

- **For each monitored point, specify the values at which alerts should trigger and clear:**

Alert Type	Trigger Level	Clear Level
Critical High Alert		
High Alert		
Low Alert		
Critical Low Alert		

- **These levels help ensure appropriate notifications and response times based on your operational needs.**

4. Data Display Format

- **Indicate how you'd like each type of data presented on your dashboard:**
 - Tables
 - Graphs/Charts
 - Visual Simulations (e.g., tank graphics, pipeline flows)
 - Other (please specify)

5. Required Calculations

- **List any specific formulas or calculations you need shown or calculated automatically. Examples:**
 - Pump runtime
 - Injection rates
 - Production rates (e.g., $Q = V / t = 10,000 \text{ bbl} / 30 \text{ days} = 333.33 \text{ bbl/day}$)
 - Any other performance metrics or KPIs relevant to your operation

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6. Alert Recipients & Notification Preferences

- **Provide the** user names, email addresses, and/or mobile phone numbers **for those who should receive alerts. Also, specify who should be notified for each alert level:**

Alert Severity	Notify Users (email separated by comma)	Notify Users (mobile phone separated by comma)
Critical		
Major		
Minor		
Warning		
Indeterminate		

Once we receive this information, our Reign Support team will configure your dashboard to match your needs and provide instructions for accessing and managing it. Let us know if you'd like help walking through this setup process step-by-step.

Dashboard Home Page

1. Device Overview

The **Overview Screen** is tailored to reflect the specific devices being monitored and controlled for your operation. This customization is based on information collected during the sales and initial setup process.

Tanks									
Site ↑	UUID	AWOL	Batt Status	Level (gal)	Level (in)	Tank Level (ft)	RSSI	Last Report	Report Time
P-TK-602	Device 1	●	●					Customer Transport MISSING Sensor Bat=100% 7.33V Radio=1	4/17/2025, 7:49:01 PM
P-TK-605	Device 2	●	●	73.60	32.10	3.70	10.00	Customer Transport 73.60 BBL/3 Ft 8.1 In Increase=27.83 BBL Chg=61% Bat=100% 7.30V Radio=10	5/15/2025, 3:02:15 PM
P-TK-606	Device 3	●	●	69.90	35.50	3.50	9.00	Customer Transport 69.85 BBL/3 Ft 5.9 In Bat=100% 7.26V Radio=9	5/15/2025, 3:13:51 PM
A-Cond	Device 4	●	●	239.78		11.99	9.00	Tank 239.78 BBL/11 Ft 11.8 In Bat=100% 3.63V Radio=9	5/15/2025, 3:00:02 PM

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- **Site**

Each Site is identified by a unique name assigned to its corresponding device. You can update or change this name at any time by clicking the Site Name icon  at the end of the row. This will open a dialog box where you can enter a new name.

- **UUID**

This is the Universally Unique Identifier (UUID) assigned to your device. Authorized personnel can use the last 6 digits of this number to request current readings from an active device via SMS.

To query a device via SMS:

- a. Send a text message to 844-647-3446 containing the last 6 digits of the device's UUID you want to check.
- b. The system will reply with the most recent report that the device sent to the server. (Refer to the example in Figure 1.)

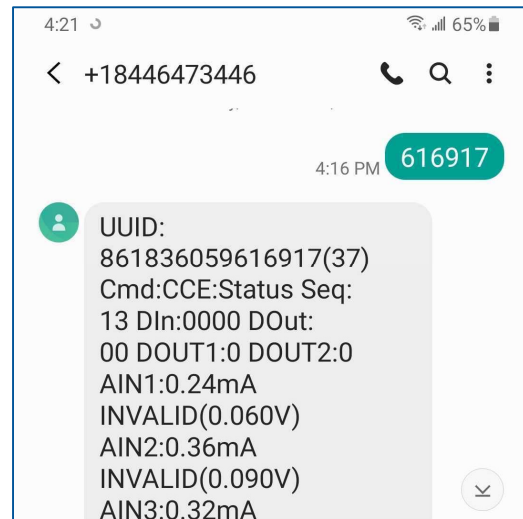


Figure 1- Sample of SMS Report from an active device

- **AWOL**

The AWOL column indicates the status of the device based on its reporting activity. You define how frequently each device should check in; if it fails to report within that set timeframe, it is marked as AWOL (Offline). This reporting interval is configured on the Setup page, as described later in this document. A **red** circle signifies the device is AWOL, while a **green** circle means it is actively communicating. When a device is AWOL, other data columns will be empty, except for Last Report and Report Time, which display the device's last known status and the time of its most recent report.

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• Battery or Power Status

This column displays the current power status of the device. For battery-powered devices, it shows the battery level:

- **Red** indicates less than 30% remaining
- **Green** indicates more than 60% remaining

For devices powered by an external power supply, it reflects the voltage status:

- **Red** means the power is off or voltage is below 11V
- **Green** indicates a healthy voltage level above 16V

• Analog Data Columns

The following columns display analog values reported by your devices. These may include tank levels, pressure readings, amperage, or other analog measurements, depending on your system configuration. The specific values shown are based on the data you provide during the setup process. Our example shows tank levels in various measurements.

Level (gal)	Level (in)	Tank Level (ft)
41.80	32.10	2.10

• RSSI

The RSSI value may or may not be on your page. RSSI stands for Received Signal Strength Indicator. It's a measurement of the power present in a received radio signal, indicating how strong the signal is at a particular point. This is sometimes used to determine which carrier's SIM should be used in certain areas.

• Last Report

The Last Report column shows the last Report that was sent from the device. In the case of an AWOL device this report shows what was happening at the device when it communicated the last time.

• Report Time

The Report Time provides the date and the time that the last readings were received from the device. For an AWOL device this shows the last time the device communicated before going offline.

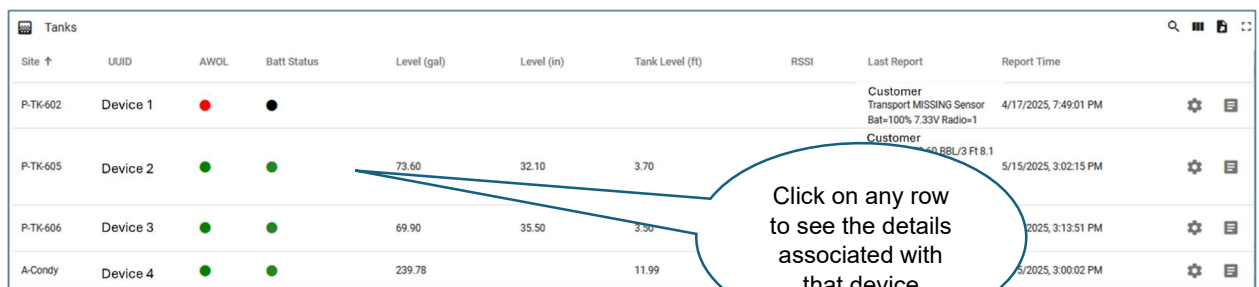
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- **Map**

Most home pages include a map displaying the locations of your devices. If a monitored device does not have GPS coordinates, you can contact Reign Support to manually provide the correct location. Adding coordinates helps field personnel quickly locate the site for maintenance and support.

- **Site Name**

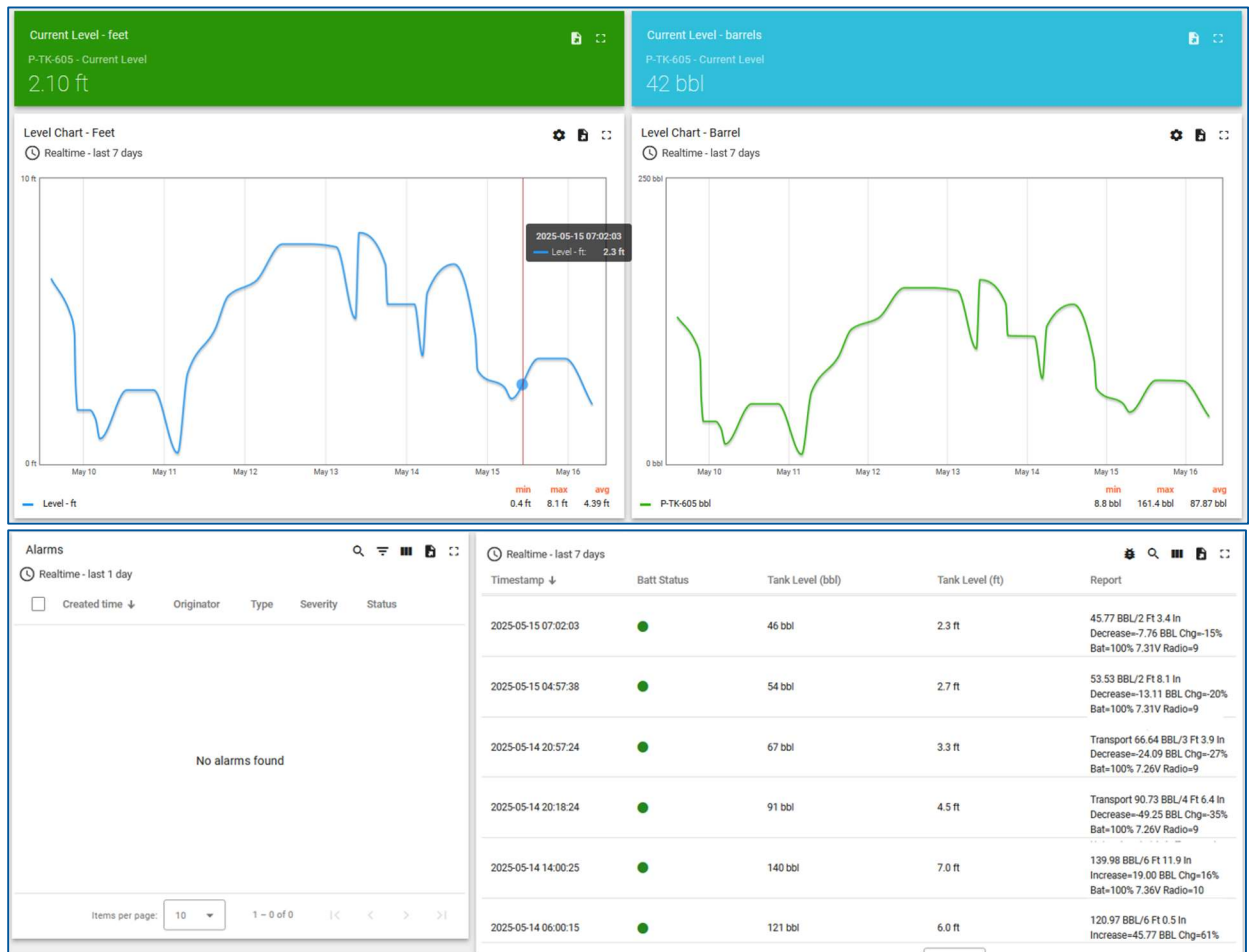
To add or change the Site Name for each device you will use the Site Name Icon for each device. Click the Icon  which will open a separate dialog box where you can enter the name for the site.



Site ↑	UUID	AWOL	Batt Status	Level (gal)	Level (in)	Tank Level (ft)	RSSI	Last Report	Report Time	
P-TK-602	Device 1	●	●					Customer Transport MISSING Sensor Bat=100% 7.33V Radio=1	4/17/2025, 7:49:01 PM	
P-TK-605	Device 2	●	●	73.60	32.10	3.70		Customer 40 RBL/3 Ft 8.1	5/15/2025, 3:02:15 PM	
P-TK-606	Device 3	●	●	69.90	35.50	3.50			2025, 3:13:51 PM	
A-Cond	Device 4	●	●	239.78		11.99			5/2025, 3:00:02 PM	

Click on any row to see the details associated with that device

Device Details



Similar to the home page, the Details Page is customized to display the information most relevant to your operation. Our Support Team will collaborate with you to identify and configure the data that best supports your monitoring and management needs.

The different sections on the screen are referred to as “Cards” or “Widgets.” These can be easily added or removed by our team based on your preferences. Each card offers several interactive features—you can adjust the time range for displayed data, export the information to an XLS or CSV file, search within the card, or customize display settings to better suit your needs. On the Alarms card, you also have the option to filter alerts, allowing you to view all historical alarms or narrow it down to specific types, such as Unacknowledged Alerts.

Device Setup

The Device Setup Page is accessed by clicking on the Setup Icon at the end of the row. This will direct you to the Device Setup page for a specific device. Similar to the one shown here.



Device Settings

Multiple values separated by commas
Set TimeZone (EST5EDT, CST6CDT, MST7MDT, PST8PD)

CST6DST

Amount of Time in Hours Before Considered AWOL

26

Tank Low Level Alarm Value (gal)

Tank High Level Alarm Value (gal)

8000

Alarm Email - All Alarms Sent Here

Text Alarm All Alarms Sent Here

Note Pad

Notes

Sort Order

2

Show Alarm Acknowledgements

Disable All Alarms

Undo

Save

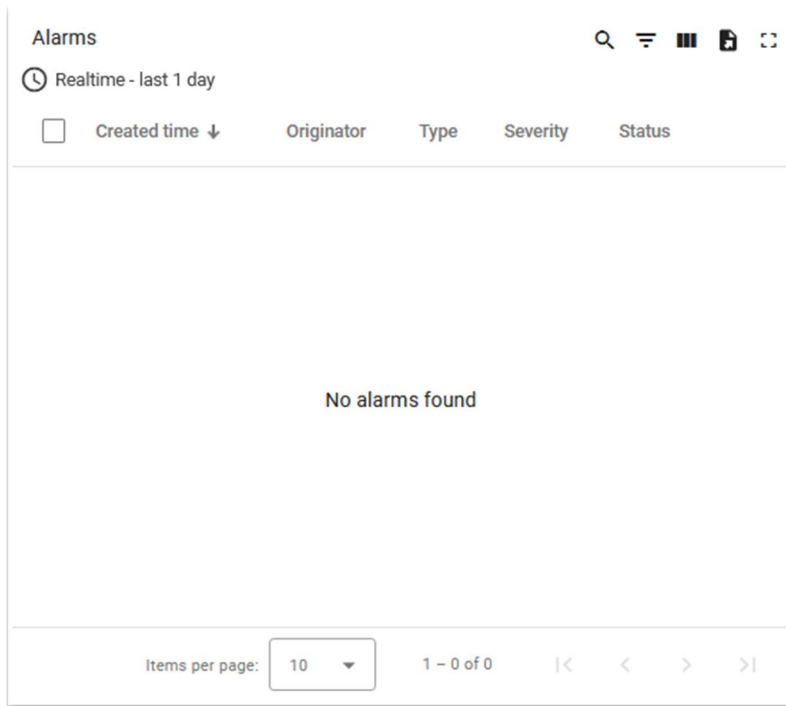
A-Crude-2

Name	A-Crude-2
UUID	R00355
Type	
Tank Level	5.5 ft
Tank Level	109.1 bbl
Tank Increase	
Tank Decrease	
Battery	3.63 V
Battery Level	100 %
RSSI	8
Report	Tank 109.08 BBL/5 Ft 5.4 In Bat=100% 3.63V Radio=8
Status	
Last Comm Time	5/16/2025, 11:00:04 AM
lastActivityTime	1747411235425.00
Seq#	602
tankAlarmHighLevel	8000.00
tankAlarmLowLevel	

- Time Zone: Fill in the correct time zone for the location of the device
 - Amount of Time in Hours Before Considered AWOL: This defaults to 26 hours. This is important because it determines at what point a device is considered AWOL should you not receive any communication from the device.
 - Alarm Value Fields: Alarm Value Fields are used to define the thresholds for triggering and clearing alarms, based on the parameters you are monitoring. These fields typically include High, Low, Critical High, and Critical Low, along with corresponding “Clear” values. The system uses these entries to determine when to send an alarm and when to issue a clear notification. For example, if you enter 15 in the Tank Low Level field, an alert will be sent when the tank level drops below 15 gallons. If you set the Clear value to 20, a “Clear” notification will be sent once the level rises back to 20 gallons or more.
 - Alarm Email: Any email addresses entered in this field will receive all alerts for this device. Enter multiple email addresses using a comma between each email address.
 - Text Alarms: Any mobile phone number entered in this field will receive all alerts for this device. Enter multiple phone numbers using a comma between each email address.
- NOTE: If you add the letter “V” after 1 or more phone numbers it will send both a Text Alert and the phone will receive an automated voice message too.**

The information on the Right side of the page is a summary of the last report received from the device.

Alarms



The Alarms card can appear on any screen. In this example it is shown on the details page. You will see any Active and Unacknowledged alarms for this device listed here. If you would like to see Alarms that have occurred in the past you can change the time value at the top left-hand side of the screen and you can change the status of the alarm to display Alarms that have occurred in the past, when they were acknowledged etc. See the example below this shows All Alarms that have occurred in the past 30 days for all Status'.

Alarms						
History - last 30 days						
☐	Created time ↓	Originator	Type	Severity	Status	Hrs. Leak Detected
☐	2025-05-11 00:00:28	Shore Dr	Leak Detected	Critical	Cleared Unacknowledged	0.83
☐	2025-05-10 23:00:27	Shore Dr	Leak Detected	Critical	Cleared Unacknowledged	0.83

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Commands

The Commands screen is available from the Details Page for most customers and is primarily used by the Reign Support Team to send commands and assist with remote troubleshooting. In some cases, this screen can also be used to check the status of specific devices. If you're interested in learning more about the functionality of this screen, we recommend scheduling a training session with Reign Support.

Important: Please do not use this screen unless you fully understand the impact of sending commands to a remote device. Reign is not responsible for any damage caused by improper use or commands issued by untrained personnel.

The screenshot shows the 'Alarms' section of the ReignCloud dashboard. On the left, there's a sidebar with 'Alarms' and 'Realtime - last 1 day'. The main area displays 'No alarms found'. On the right, there's a table with columns: Timestamp, Batt Status, and Report. A callout bubble points to the 'Command Screen' icon in the top right corner of the dashboard.

Timestamp	Batt Status	Report
2025-05-15 07:02:03	46 bbl	45.77 BBL/2 Ft 3.4 In Decrease=-7.76 BBL Chg=-15% Bat=100% 7.31V Radio=9
2025-05-15 04:57:38	54 bbl	53.53 BBL/2 Ft 8.1 In Decrease=-13.11 BBL Chg=-20% Bat=100% 7.31V Radio=9
2025-05-14 20:57:24	67 bbl	Transport 66.64 BBL/3 Ft 3.9 In Decrease=-24.09 BBL Chg=-27% Bat=100% 7.26V Radio=9
2025-05-14 20:18:24	91 bbl	Transport 90.73 BBL/4 Ft 6.4 In Decrease=-49.25 BBL Chg=-35% Bat=100% 7.26V Radio=9
2025-05-14 14:00:25	140 bbl	139.98 BBL/6 Ft 11.9 In Increase=-19.00 BBL Chg=-16% Bat=100% 7.36V Radio=10
2025-05-14 06:00:15	121 bbl	120.97 BBL/6 Ft 0.5 In Increase=-45.77 BBL Chg=-61%

Command Screen

The screenshot shows the 'Command Screen' interface. On the left, there's a sidebar with 'Get Latest Values', 'Get Status Log', and 'Config Query'. The main area has a 'Send a Command' section with a dropdown for 'Caribbean Dr Summerland', a 'Command Property Name' dropdown set to 'PROFILE', and a 'Property Value' input field. Below this, there's a 'CANCEL' button and a 'SEND' button. At the bottom, there's a table with columns: Timestamp, MsgTime, status, seq, report, response, status.log, Mode, Pump, Relay, Alarm, Alarmstatus, ain1, ain1.ft, ain1.raw, ain2, ain3, ain4, din1, din2, din3, din4, din5, din6, d.

Timestamp	MsgTime	status	seq	report	response	status.log	Mode	Pump	Relay	Alarm	Alarmstatus	ain1	ain1.ft	ain1.raw	ain2	ain3	ain4	din1	din2	din3	din4	din5	din6	d
				Valve OK																				
				Pres=12.0																				

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For additional information or help with a device contact the Reign Support Team.

Support

Phone: 833-467-3446

Email: support@reignrmc.com

