



Industrial IoT Connectivity & Controls

DCon Controller Quick Start Guide

Technical Documentation

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

ReignMaker™ Quick Start Guide

Thank you for purchasing the ReignMaker controller. Your sites now have a 24/7 control of all your monitored equipment.

ReignMaker Configurations

The ReignMaker controller offers a high level of configurability. The side panel includes three knock-outs designed for SP21 connectors, allowing for fast and easy sensor connections. If you ordered sensors from Reign, the connectors will be pre-installed when your device arrives. If you plan to use your own sensors, SP21 connectors can be purchased directly from Reign. Pin-out configurations for both SP21 Male and Female connectors are available in the ReignMaker Reference Guide on the Reign website: reignrmc.com.

ReignCloud Dashboard

- Each ReignMaker comes with a customized cloud dashboard based on your configuration and preferences.
- You should receive an on-boarding email where you will receive your login credentials and a meeting time with one of our Staff as an introduction to the dashboard.
- If you need additional logins, please contact support at 833.467.3446 or send us an email at support@reignrmc.com.
- To access your dashboard, go to reignrmc.net and enter your login information.

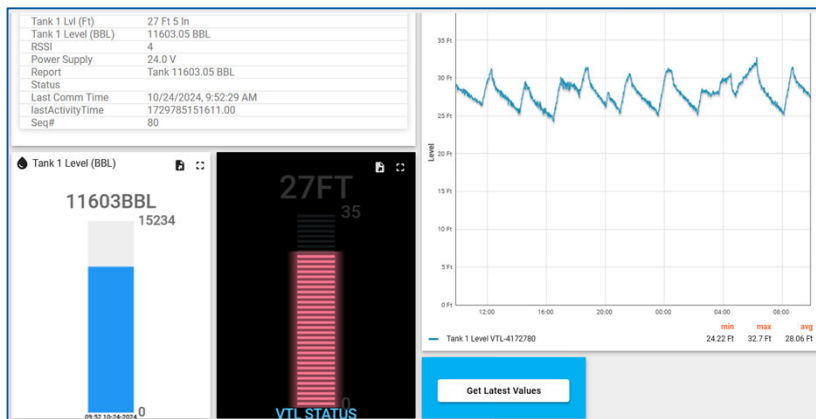


Figure 3 Sample Dashboard Screen

In the Box



The Powerful ReignMaker Includes Power Supply

Note: Please follow all site safety guidelines before installing the equipment at your location.



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



Note: Detailed information regarding the ReignMaker or ReignCloud can be found on the documentation page of the Reign website: reignrmc.com.

ReignMaker™ Quick Start Guide

ReignMaker Connections

Power Connection:

- 24-volts DC on **P2**
- The front panel LED will light Blue when power is applied

Sensor Connections:

- Power for the +24 volt sensors can be obtained from **+VA** terminals (**1,5,7,12**) on **P1**
- Ground or common return on **CO** connections (**3,9**)

Analog Sensor Connections:

- Connect sensors to **AN1 (2)**, **AN2 (4)**, **AN3 (6)** and **AIN4 (8)** terminals on the **P1** connector.
- If the sensor is 4-20mA current output, like (1) **ON** for **AN1**, (2) **ON** for **AN2**, (3) **ON** for **AN3** and (4) **ON** for **AIN4**. 4-20 mA sensors are normally connected between the VA source voltage and the ANx input.

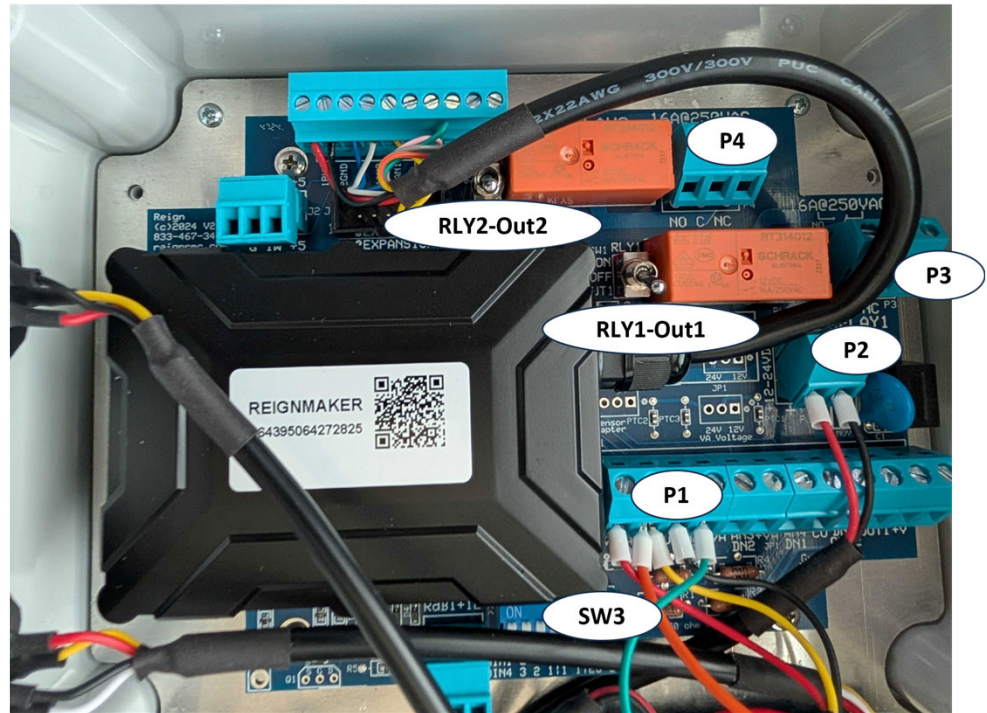


Figure 4- ReignMaker Board Connections

- If the sensor is an analog voltage output (0 to 5V or 0-10V), then the corresponding switch on **SW3** would be set to OFF not ON.

Digital Sensor Connections:

- Connect sensors to **DN1 (8)**, **DN2 (6)**, **DN3 (4)**, **DN4 (2)** and **DN5 (10)** terminals on the **P1** connector
- Turn OFF the appropriate switch on **SW3** **DN1 (4)**, **DN2, (3)**, **DN3 (2)**, **DN4 (1)**
- For **DN5**, turn switch **7 ON** and **8 OFF**

Relay Connections:

- Both Relays provide a form C connection rated at 16A @ 250 VAC, with maximum switching voltage 400VAC
- **RLY1** connection is at **P3** and is controlled by **OUT1** Set **SW3 (5) OFF** and **SW3 (6) ON** to use **RLY1**
- **OUT1** is also available at the **P1 (11)** To use this connection, set **SW3 (5) ON** and **SW3 (6) OFF**
- **RLY2** connection is at **P4** and is controlled by **OUT2** Set **SW3 (7) OFF** **SW3 (8) ON** to use **RLY2**
- **OUT2** is also available at the **P1 (10)** To use this connection, set **SW3 (7) ON** and **SW3 (8) OFF**
- **Digital input IN4 and OUT2 share the same wire and cannot be used simultaneously**
- **RLY1** and **RLY2** have a control switch with three positions:
 - **UP** will force the Relay ON This forces the relay to activate, and it is like the control tab on some Relays
 - **MIDDLE** will disable and open the Relay this locks out the Relay from operating
 - **DOWN** will have the relay controlled by the Reign system this is the default position for delivery
- **The Front panel LED will light Red when either Relay is ON**