Rheonics Training Deck

Type-SR sensor UDT Configuration in Ignition

Rheonics

Winterthur, Switzerland

Sugar Land, Texas, U.S.A.

Agenda

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2. Communication options

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1. Rheonics Type-SR Features overview

SRV: Symmetric torsional resonator
Rheonics inline viscometer
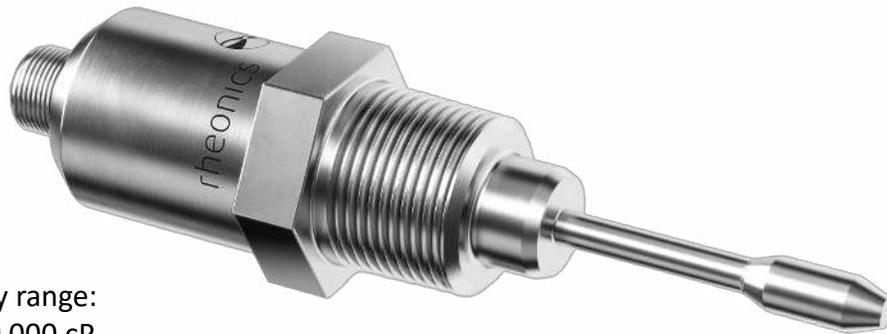
Viscosity range:
0.5 – 50 000 cP

Viscosity accuracy:
5% of reading (standard)
1% or higher available

Reproducibility:
better than 0.1% of reading

Density range:
0.0 – 4.0 g/cc
0.0 – 33.4 lb/gal

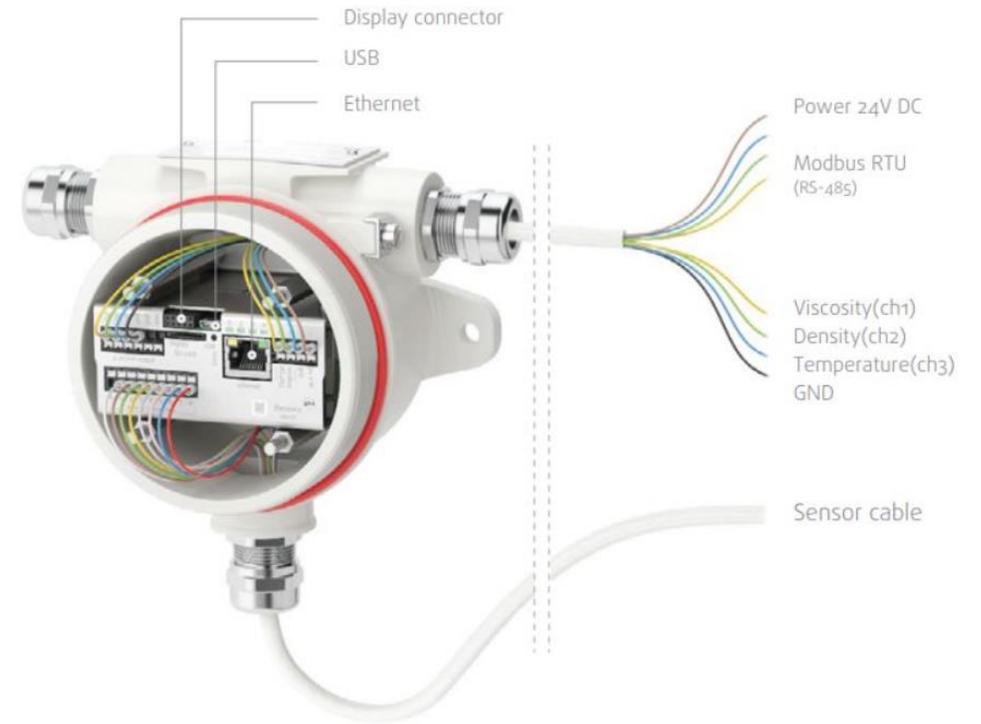Density accuracy:
0.001 g/cc
0.008 lb/gal
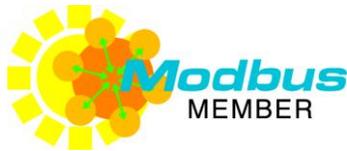
Reproducibility:
better than 0.1% of reading

SRD: Symmetric torsional resonator
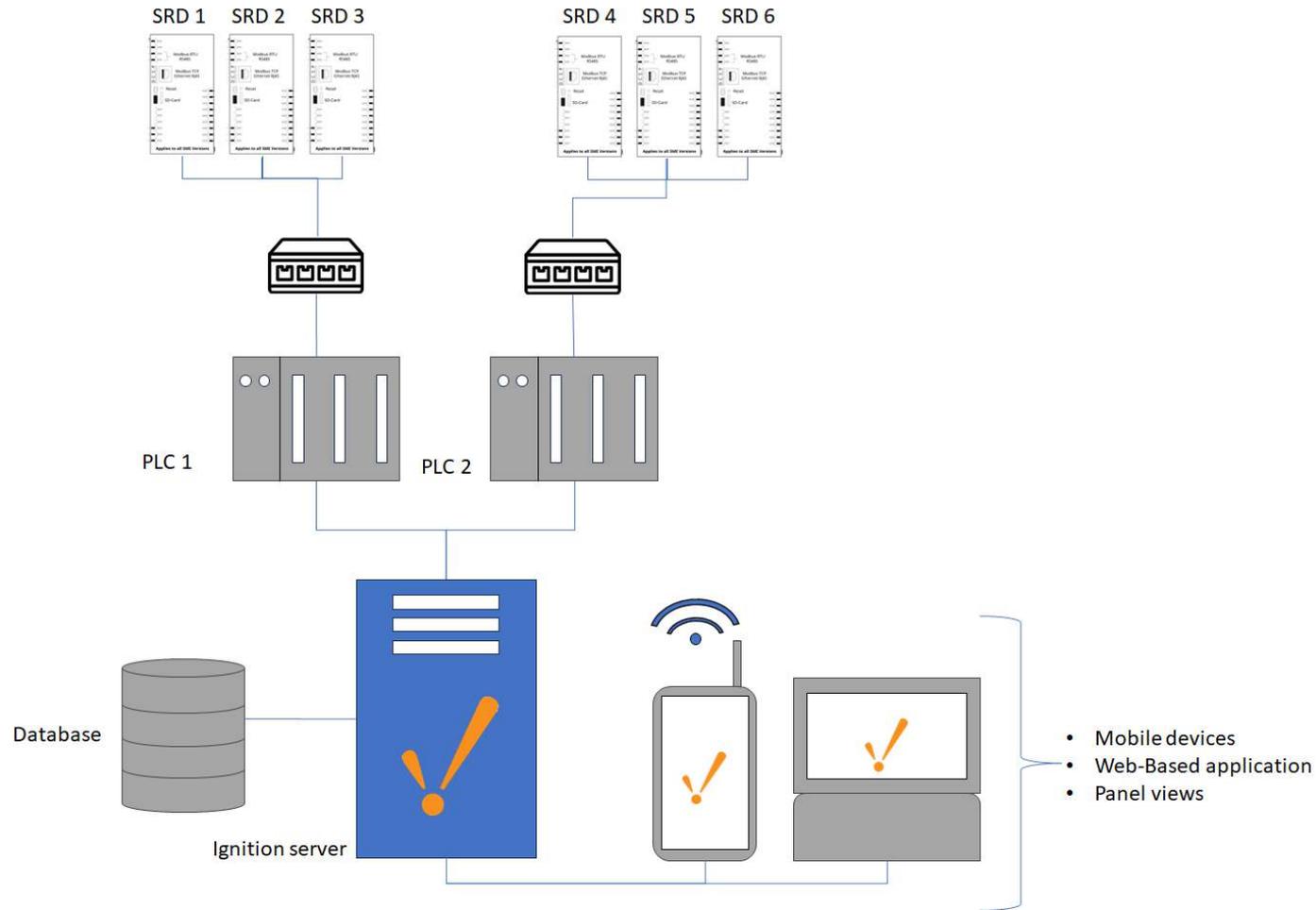Rheonics inline density and viscosity meter

2. Communication options

- Easy integration: Programming API & Wireless options

- Stable in harshest environments: Operational to 65 °C ambient and in high EMI process environments
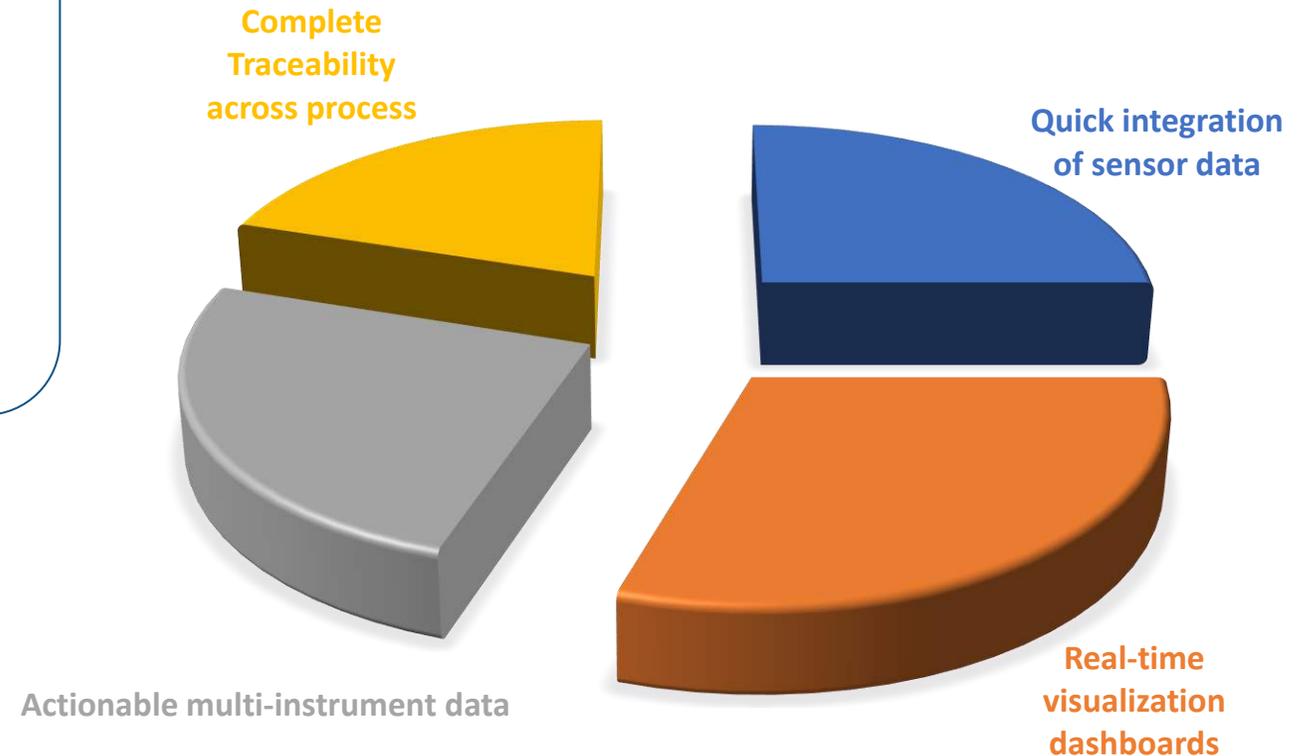
3. What is Ignition?

4. What can you achieve by integrating Rheonics sensors with Ignition?

Key benefits:

- Quick integration of sensor data
- Real-time visualization dashboards
- Actionable multi-instrument data
- Complete Traceability across process

DOWNTIME MANAGEMENT

Complete Traceability across process

Quick integration of sensor data

Actionable multi-instrument data

Real-time visualization dashboards

5. Where to Find Rheonics in Ignition Exchange?

1. Ignition Exchange website

2. Search bar, type "Rheonics"

3. Rheonics Template package

6. What is included?

1. Images Folder: This contains graphical assets including icons and Logos from the sensor.

2. Others Folder: Here you'll find a PDF with instructions and some additional resources.

3. Projects Folder: This includes three project files that users can use to integrate Rheonics sensors into their processes.

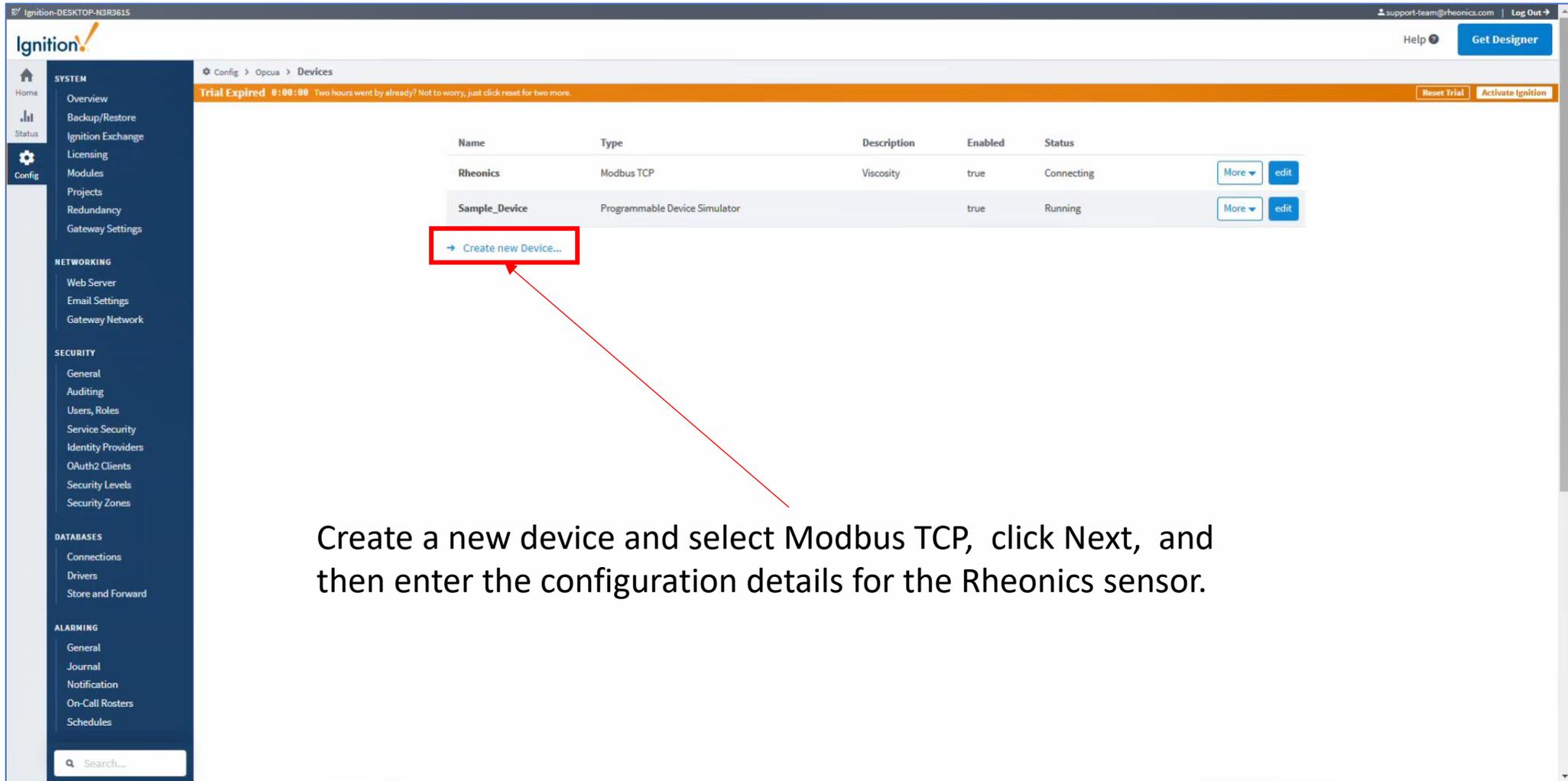4. Tags Folder: This contains UDT (User-Defined Tag) definitions to simplify sensor configuration in Ignition.

7.1. Ignition Gateway-OPC UA Device connection
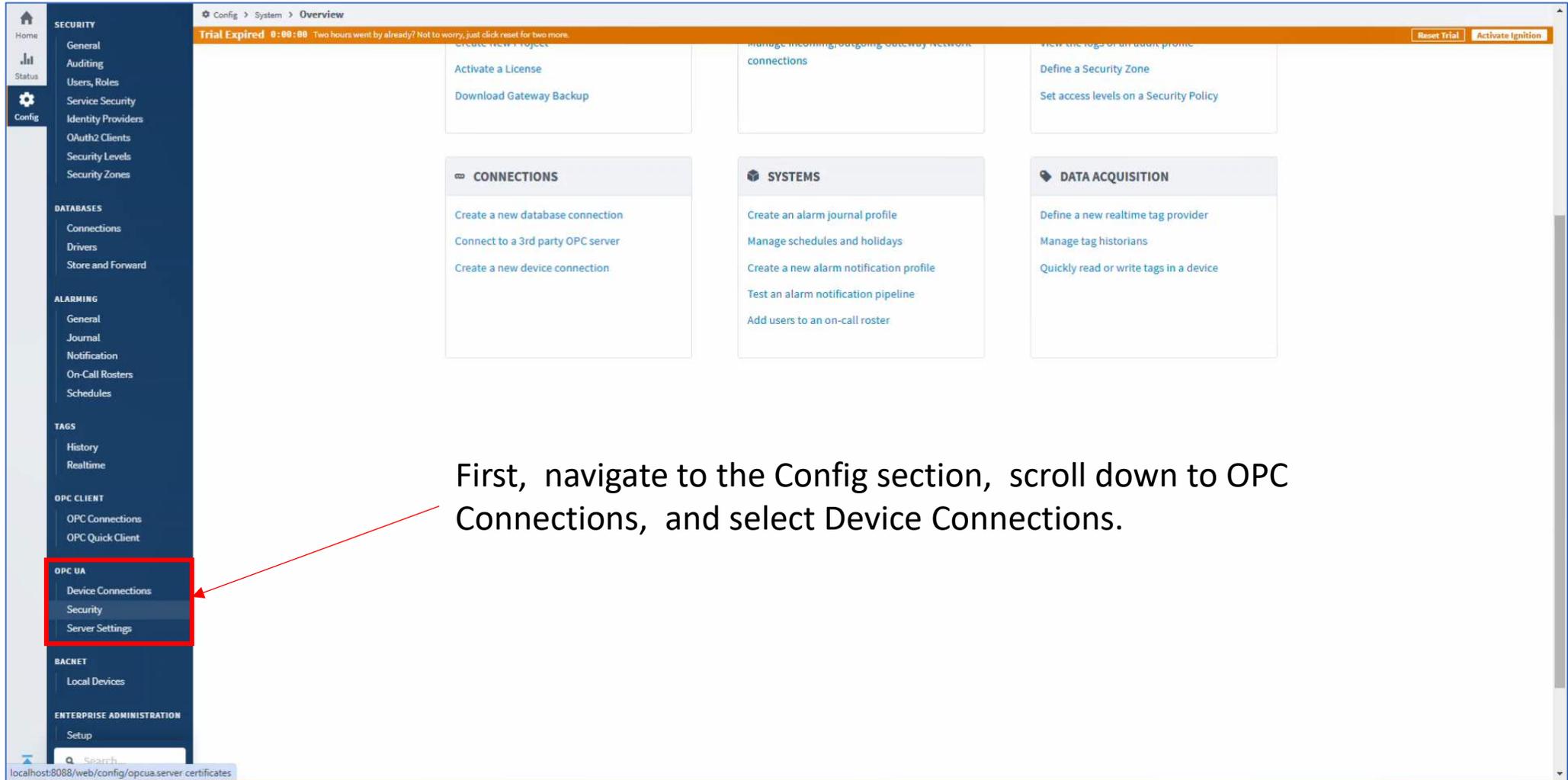
First, navigate to the Config section, scroll down to OPC Connections, and select Device Connections.

7.2. Ignition Gateway-Create new device

Create a new device and select Modbus TCP, click Next, and then enter the configuration details for the Rheonics sensor.

7.3. Ignition Gateway-Configuring Rheonics Device

Rheonics Modbus TCP parameters configuration, after saving the changes the device should take a few seconds to connect

8.1. Ignition Designer Launcher

Add a new project using the material available on Rheonics Package downloaded from Ignition exchange website

- Start by clicking on the Import Project button.
- Select the Rheonics project template, then enter a new project name, such as Rheonics Project Template Webinar.
- Click on the Import Project button at the bottom to proceed.
- Once the project is imported, click Open to access all the templates associated with the Rheonics sensor.

Finally enter username and password to launch the Ignition designer.

8.2. Integrating Rheonics sensor in Ignition Designer

On the Vision section, we can observe the SRV and SRD templates. These templates are fully prepared to handle the Rheonics data.

8.3. Mapping variables in Ignition Designer

The next step is to map the variables based on the registers assigned during the OPC client setup

9. Where can I learn more?

Visit the Rheonics Support Portal to learn more about Rheonics and its integration with Ignition.

Contact

Rheonics GmbH

Winterthur, Switzerland 🇨🇭

Tel: +41 52 511 32 00

Rheonics, Inc. 🇺🇸

Texas, U.S.A.

Tel: +1 713 364 5427

Web:

https://rheonics.com

Email:
Sales: info@rheonics.com
Support: support@rheonics.com