4 INTERPRETING OIL CONDITION



5 SUPPORT - FAQ / TROUBLESHOOTING

If you have any issues, please CLICK or SCAN the QR Code and read our FAQ section.



Alternatively, email: support@tandeltasystems.com

5.1 Full SENSE-3 User Guide

You can find further information in the SENSE-3 User Guide provided on the USB and available on the downloads page of our website:

www.tandeltasystems.com/downloads

If you have any further questions, please contact our support team.

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GATEWAY KIT - SENSE-3 QUICK START GUIDE



We recommend that this kit is installed by a trained installation engineer or Tan Delta Distributor.

What's in the box? - Product Code: SENSE-3-BS1	
Item	Description
1	SENSE-3 Unit - Gateway pre-assembled with Gateway Hub and Mounting Kit
2	Gen II Oil Quality Sensor (OQSx-G2)
3	Configuration Cable (Cable J)
4	Sensor to Gateway Hub cable (Cable SH)
5	Gateway 4 G Antenna Cable
6	Gateway Hub Continuity Plugs (HCP-1) - 2 supplied, pre-fitted in 2 Sensor connectors
7	Gateway Hub to Gateway Cable 0.2 m (Cable GH) - pre-fitted in Gateway & Hub
8	Gateway Hub Power Cable 10 m (Cable HP)
9	USB Stick containing: Tan Delta's Gateway Configurator Software, Configuration and Data Management Software (CADS), and SENSE-3 User Guide
10	Quick Start Guide



1 CONFIGURATION AND INSTALLATION OVERVIEW

- Install CADS from the USB
- Configure the OQSx-G2 sensor using CADS.
- Configure the Gateway using the Configurator Software
- Install the OQSx-G2 sensor(s) on your asset(s) and the Gateway in a suitable location.
- Check the system for correct operation.

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2 CONFIGURATION

3)

2.1 Configuring the OQSx-GS Sensor

- 1) Install CADS from the provided. CADS is also available as a download from: http://oilconditionsoftware.com/setupcads.exe
- Make sure that you have Administrator rights on your PC/Laptop. Locate the setupcads.exe file and start the installer. Select Launch CADS.

Plug the **Configuration cable** (3) into



- an available USB port and allow the update/installation of drivers.
- 4) From the CADS main menu, select **Configure OQSx**.
- 5) Connect the **Sensor** (2) to the **Configuration cable** (3).
- 6) CADS will display a list of available sensors, identified by their serial numbers. Select the required Sensor by checking its Serial Number.
- 7) Select the **Modbus RTU over RS485** communications protocol.

! VIDEO TUTORIAL

For a video tutorial, showing the Modbus RTU Configuration process, visit the website below, or scan the QR code.



http://oilconditionsoftware.com/configuremodbus

- 8) Each sensor installed on the same system MUST have a unique **Node ID**. Set a unique **Node ID** from 1 16 for each sensor.
- 9) Make sure that 9.600 Kbps Bit Rate is selected.
- 10) Select the correct oil for each sensor.

2.2 Configuring the Gateway

U VIDEO TUTORIAL

For a video tutorial, showing the Gateway Configuration process, visit the website below, or scan the QR code.



http://oilconditionsoftware.com/configuregateway

- From the USB (a), on the Gateway Configuration Tool and configure the Gateway network for 4G SIM, WiFi, or Ethernet using the on the USB. Save the configuration as a *.conf file.
- 2) Connect the free ends of **Cable HP** (a) to a suitable power source (9-30V DC).
- Connect Cable HP (a) to the Gateway Hub (1)
 After one minute, the Gateway will boot up and LED 3 will have a steady green light.



- Insert the USB (a) into the Gateway (1) USB Port. LED 2 will turn red for a few seconds, then all LEDs will go off.
- 5) Remove the **USB** (9) at this point.
- 6) After one minute, the Gateway will reboot. LED 3 will have a steady green light.

LED 4 will have a steady amber light once the Gateway has connected successfully to **TD Online**.

3 INSTALLATION

Configure all your sensors before powering on the system.

1) Install each sensor on its intended asset (Engine, Gearbox etc.).

! VIDEO TUTORIAL

For a video tutorial, showing the OQSx-G2 Sensor Installation process, visit the website below, or scan the QR code.



http://oilconditionsoftware.com/installsensor

- Mount the SENSE-3 unit to a wall or rigid surface using any 4 of the 6 x Ø6.5 clearance holes.
 Make sure the IP 67 cover is attached.
- 3) Route each **Cable SH** ④ from its sensor to slot S1, S2, or S3, as required.
- 4) Retain a **Continuity Plug** (6) in each unused slot
- 5) If using a 4G SIM, attach the **Antenna** (5) to the **Gateway** (1).
- 6) Install the 4G Antenna in a high point, with clear line of site to the sky to obtain the best signal.
- 7) Check that **Cable HP** (a) is connected to the **Gateway Hub** (1) and a power supply of 9-30 V DC.
- 8) Check that data is coming through on **TD Online** for each sensor.





