

((SENSONEO))

Quatro sensor

Installation guide 2018

www.sensoneo.com/knowledge

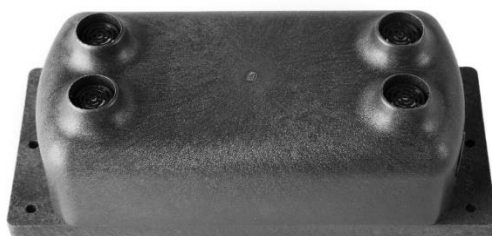
INTRODUCTION

The Sensoneo Quatro Sensor is an enterprise class sensor. Designed for high capacity containers, the QS meets the needs of the customers wanting the secure data transfer to cloud-based applications.

Package Contents

The QS package contains the following:

- Quatro sensor



- Mounting kit



Note: Mounting kits may vary based on the type of container.

INSTALLATION INSTRUCTIONS

Sensor initialization (NOTE: applicable only when using NB-IoT or GSM networks and when Sensoneo isn't providing SIM cards)

1. Unscrew the back cover, flip the SIM holder and place the SIM card into it.



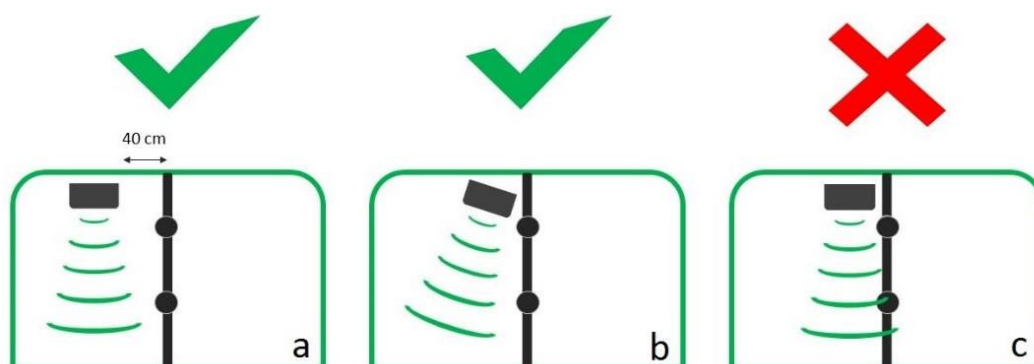
2. Put the cover back on. Sensor is now initialized and ready to be installed.

Choose Your Mounting Location

Keep the following in mind:

1. The device should be pointing down to the centre of the bottom of the container, bear in mind that the measurement is starting 15 cm below the sensor. When installing on the lid then the sensor should be at least 40 cm from the side wall of the container - picture A. When installing on the side wall then the sensor has to point away from the wall - picture B. Picture C shows incorrect installation.

CORRECT INSTALLATION



1. Make sure that you are in the range of signal.

Physical installation on the container

1. Fix the sensor on the mounting kit with rivets. Using silicone on top for protection from water is highly recommended. Below is the example of mounting kit which may vary. Fix the mounting kit with the sensor on the container as shown on the pictures below based on the type of container.



Device Functionality and Test Network Coverage verification

1. Install the Sensoneo Sensor Configurator App (only available for Android at Google Play Store).
2. After connecting to sensor via Configurator App use the GetMeasurements command to see if the sensor is measuring properly and SendMeasurements command to see if the sensor is sending data to the backend properly. Find more in Configurator User Manual <http://sensoneo.com/knowledge/configurator-user-guide/>
3. Log into Sensoneo Smart Waste Management System tool for provisioning and configuration <http://prodadmin.sensoneo.com/>
4. Go to Monitoring/SMS received or Monitoring/IoT to check if the sensor sent the data successfully. Find more in Smart Waste Management System User Manual <http://sensoneo.com/knowledge/webadmin-guide/>

Quatro Sensor NBloT

Check WMS IoT messages and search by Sensor CCID (SIM card no.)
NOTE: CCID on some plastic SIM cards have two last digits added. Those digits are not included in CCID in the system. In this case please remove last two digits and search again.

Have you found at least one message from sensor?

NO

YES

Yes, problem solved

Have you found more current messages from sensor in IoT messages than from Dashboard?

YES

Maybe be caused by changed DevEUI in BIN setup (needs to be corrected)

NO

Have you manipulated with the sensor?

YES

* Please connect to sensor by Sensoneo Sensor Configurator App and check settings:
- role Standalone
- network type NBloT
- NBloT APN + PLMN (your operator)
- IP address check (TARGET: 40.119.156.2)
- measurement times
- CCID visible

ACTION: after settings check send the measurement and check WMS IoT (can take few minutes)
NOTES:
* if APN + PLMN is missing, please contact your provider
* if CCID is not visible (missing) please reboot the sensor.

Did it help?

YES

Yes, problem solved

NO

YES

What is the battery level?
Is it below 3V in last messages?
(measurement by ID)

NO

please check:
- if SIM card has been activated (with your provider)
- if your provider has allowed IP address of Sensoneo UDP listener (40.119.156.2:4004)
- with your provider if there is strong enough signal coverage in this area
- with your provider if there are no network outages

Did it help?

NO

YES

Yes, problem solved

ACTION:
- send birthday certificate to WMS (need to have internet connection on your device)
then contact:
support@sensoneo.com
Subject: QS NBloT issue
Content: Customer, Partner, DevEUI, NBloT operator (PLMN,APN)

NOTES: in case you were not able to send birthday certificate to WMS please send screenshot or video

* Please connect to sensor by Sensoneo Sensor Configurator App and check settings:
- role Standalone
- network type NBloT
- NBloT APN + PLMN (your operator)
- IP address check (TARGET: 40.119.156.2)
- measurement times
- CCID visible

ACTION: after settings check send the measurement and check WMS IoT (can take few minutes)
NOTES:
* if APN + PLMN is missing, please contact your provider
* if CCID is not visible (missing) please reboot the sensor.

Did it help?

YES

NO

* in case that CCID is not visible:
- please check if there is no PIN on SIM card (must be deactivated)
- lift the contact springs on SIM holder

ACTION:
Do the Factory Reset
Reboot sensor and check CCID
* in case that your NBloT operator supports only PDP context, please set this condition via COMMAND Pdp_context

Did it help?

YES

Yes, problem solved

* in case that CCID is not visible:
- please check if there is no PIN on SIM card (must be deactivated)
- lift the contact springs on SIM holder
ACTION:
Do the Factory Reset
Reboot sensor and check CCID
* in case that your NBloT operator supports only PDP context, please set this condition via COMMAND Pdp_context

Did it help?

YES

**Sensoneo enables
a world that is
green, clean and
free of litter**

Sensoneo

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