



**Instructions for converting Daviteq
Sigfox Exd-Pressure device to
Daviteq LoraWAN Exd-Pressure device.**

Contents [[hide](#)]

- [1 Prepare tools:](#)
- [2 Disassemble the Daviteq Sigfox Exd Pressure device:](#)
- [3 Assemble the Daviteq LoraWAN Exd Pressure device:](#)
- [4 Stick labels on the housing of Daviteq LoraWAN Exd Pressure device:](#)
- [5 Documents / Resources](#)
 - [5.1 References](#)

Prepare tools:

- 1 pc x Screwdriver
- 1 pc x 12" Wrench
- 1 tube x Thread Lock Glue
- 1 bottle x Cleaning alcohol
- 1 pc x Cleaning cloth
- 1 pc x Grinding tool
- 1 pc x Heat gun

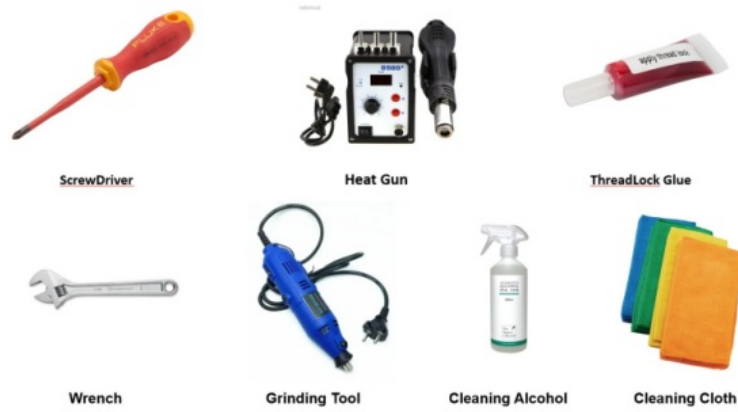


Figure 1.1: Tool list

Disassemble the Daviteq Sigfox Exd Pressure device:

- **Step 1:** Unscrew the antenna by turning the antenna counter-clockwise and open the device housing cover by turning the upper housing cover counter-clockwise as a below figure.



Figure 2.1: Unscrew the antenna and open the housing cover of Daviteq Sigfox Exd Pressure device.

- Step 2: Grind the excess part inside the housing cover to fit with new LoraWAN main board by grinding tool.



Figure 2.2: Grind the excess part inside the housina cover.

- Step 3: Remove the Sigfox mainboard by screwdriver. The position of 3 screws is

marked as Figure 2.3.



Figure 2.3: Remove the Sigfox mainboard by screwdriver.

- Step 4: Unscrew the antenna cable and cut out the 2 wires connecting the pressure sensor and Sigfox mainboard.

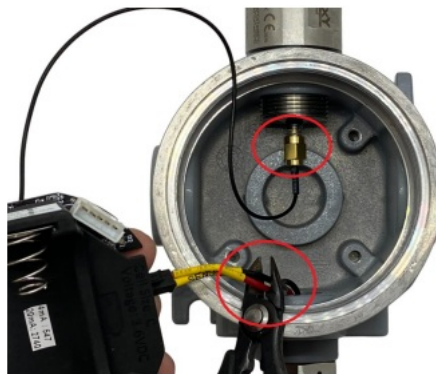


Figure 2.4: Unscrew the antenna cable and cut out the connecting the 2 wires.

- Step 5: Heat up the connecting thread between the pressure sensor and housing by heat gun (recommended heat with temperature of 300 oC in 20-30 minutes) to melt the thread lock glue for easy disassembling. Then unscrew the sensor by turning counterclockwise using wrench.



Figure 2.5: Heat up the connecting thread.



Figure 2.6: Unscrew the sensor by turning counterclockwise using wrench.

- Step 6: Peel off all labels on the housing of Sigfox device.
- Step 7: Clean the housing and thread by alcohol and cloth.



Figure 2.7: Components of Daviteq Sigfox Exd Pressure device after disassembly.

Assemble the Daviteq LoraWAN Exd Pressure device:



Note: Only re-use housing, antenna for converting from Sigfox device to LoraWAN device. DON'T re-use the Sigfox mainboard and pressure sensor.

- **Step 1:** Apply thread lock glue to the connection thread and screw the new pressure

sensor to the housing by turn clockwise.


 **Warning:** Do not use too much glue as it will take too long to dry and leak to the mainboard. Recommend using 2-3 drops of glue.




Figure 3.1: Apply thread lock glue to the connection thread of sensor.



Figure 3.2: Screw the sensor to the housing by turning clockwise using wrench

- Step 2: Select correct LoraWAN mainboard for the sensor in the step 1:
 - 10 bar new sensor will be installed with LoraWAN mainboard having item code on the main board label of WSLRWEX-PPS-10-01
 - 100 bar new sensor will be installed with LoraWAN mainboard having item code on the main board label of WSLRWEX-PPS-100-01
- Step 3: Note out the serial number on the selected LoraWAN mainboard label for later usage in labelling step.
- Step 4: Screw the antenna cable on the LoraWAN mainboard to antenna and plug socket of sensor cable to the socket on the LoraWan mainboard.

 **Warning:** Arrange the wires neatly to avoid the wires being stuck.



Screw the antenna cable and plug socket of sensor cable.

Figure 3.3:

- Step 5: Fix the LoraWan mainboard to the housing in the position as shown by screwdriver. The position of 2 screws is marked as Figure 3.4.



Figure 3.4: Position of 2 screws on to screw the LoraWan mainboard to the housing.

- Step 6: Stick the sensor manual QRCode label inside the housing cover as Figure 3.5.



Figure 3.5: Position of the manual QRCode label inside the housing cover.

<https://www.iot.daviteq.com//manual-for-wireless-sensors/manual-for-wslrwex-pps-%7C-fw3>

- Step 7: Screw the housing cover and antenna. Make sure Oring is available on housing cover.



Figure 3.6: Screw the housing cover and antenna.

Stick labels on the housing of Daviteq LoraWAN Exd Pressure device:

There are 4 types of labels for the LoraWAN Exd Pressure device:

- 1 x LoraWAN label,
- 1 x Device information label
- 1 x Magnet reed-switch label
- 1 x Manual QRCode of Daviteq LoraWAN Exd Pressure firmware3 device label

And 4 types of label and LoraWAN mainboard in the package.

- **Step 1:** Screw the housing cover tightly then stick the LoraWAN label vertically. The direction of the label as Figure 4.1.



Figure 4.1: Position and direction of the LoraWAN label on the housing cover.

- **Step 2:** Stick the device information label at the position at Figure 4.2.

- Note:** Make sure the serial number on the label is the same as one on the main board label. The serial number on the mainboard label is noted out in step 3 of section “3. Assemble the Daviteq LoraWAN Exd Pressure device”
- The the device information label is next to sensor mounting semi-circular hole.



Figure 4.2: Position and direction of the device information label on the housing

- Step 3: Stick the magnet reed-switch label as position as Figure 4.3.



Figure 4.3: Position of the magnet reed-switch label on the housing

- After completing labelling, the sensor will be as below figure 4.4.



Figure 4.4: Position of labels after labeling process is completed

5. Check operation of the LoRaWAN device after converting

- Follow instruction at section 1.7 Guide for Quick Test of WSLRWEX-PPS firmware manual. Link of online manual: <https://www.iot.daviteq.com//manual-for-wireless-sensors/manual-for-wslrwex-pps-%7C-fw3>


Please note that, log in is required to access the online manual of WSLRWEX-PPS firmware 3. The user needs to visit <https://www.iot.daviteq.com> to register the user for accessing the online manual.

🕒 Revision #13

★ Created Thu, Jan 25, 2024 2:04 AM by [Vũ Hoàng Anh Tài](#)

✎ Updated Wed, Jan 31, 2024 8:44 AM by [Phan Van Luc](#)

Documents / Resources

	<p>Daviteq LoRaWAN Exd Pressure Device [pdf] User Guide</p> <p>LoRaWAN Exd Pressure Device, LoRaWAN, Exd Pressure Device, Pressure Device, Device</p>
---	---

References

- [User Manual](#)

🔍 daviteq, device, Exd Pressure Device, LoRaWAN, LoRaWAN Exd Pressure Device, Pressure

📁 daviteq Device

Leave a comment

Your email address will not be published. Required fields are marked *

Comment *

Name

Email

Website

☐ Save my name, email, and website in this browser for the next time I comment.

Post Comment

Search:

e.g. whirlpool wrf535swhz

Search

[Manuals+](#) | [Upload](#) | [Deep Search](#) | [Privacy Policy](#) | [@manuals.plus](#) | [YouTube](#)

This website is an independent publication and is neither affiliated with nor endorsed by any of the trademark owners. The "Bluetooth®" word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. The "Wi-Fi®" word mark and logos are registered trademarks owned by the Wi-Fi Alliance. Any use of these marks on this website does not imply any affiliation with or endorsement.