

airius
WIRELESS VIBRATION SENSOR

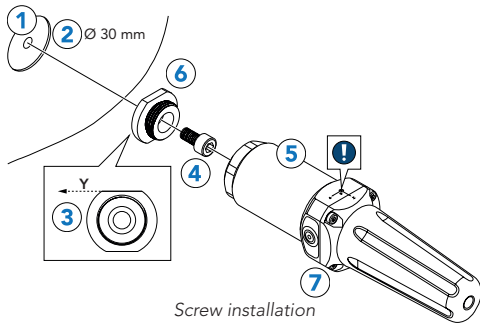
QUICKSTART

Airius II LTE-M



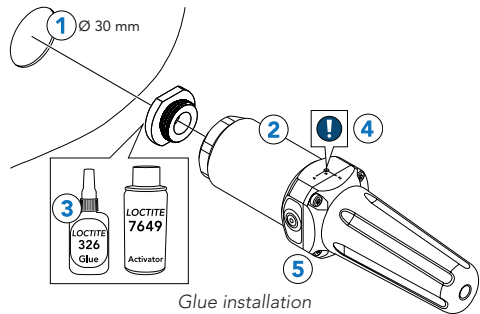
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Screw installation

	Screw torque	Sensor torque
M4 with washer	2 Nm	2 Nm
M6	7 Nm	7 Nm
M8	17 Nm	7 Nm
UNF 1/4"	8 Nm	7 Nm



Glue installation

Sensor torque: 7 Nm

MECHANICAL INSTALLATION, AIRIUS VIBRATION SENSORS

There are two ways to mechanically install Airius vibration sensors, either by screw installation or glue installation. Screw installation is recommended, if possible. Position the sensor so that the sensor performs measurements in an optimal manner while having good LTE-M signal strength. Consider that the LTE-M signal strength, ambient temperature, and time in Bluetooth mode affects battery life.

Screw installation

1. Drill a screw hole where the sensor should be placed.
2. Drill a counterbore with 30 mm diameter on the machine.
3. Align the longest flat side of the installation foot with the y-axis of the intended measurement direction.
4. Screw the installation foot onto the machine. See table for screw torque.
5. Screw the sensor onto the installation foot. See table for sensor torque.
6. If necessary, adjust the installation foot so that the sensor's markings align with the intended measurement directions.
7. If installing AIR15, connect an M12 connector to power the sensor.



NOTE: There are markings for z, x, y on the sensor, indicating the directions of the measurements.

Glue installation

1. Drill a counterbore with 30 mm diameter on the machine where the sensor should be placed.
2. Screw the sensor onto the installation foot. Tightening torque: 7 Nm.
3. Apply glue (Loctite 326) and activator (Loctite 7649) to the installation foot.
4. Make sure that the sensor's markings align with the intended measurement directions. Press the sensor onto the flat surface. Hold steady for three minutes.
5. If installing AIR15, connect an M12 connector to power the sensor.

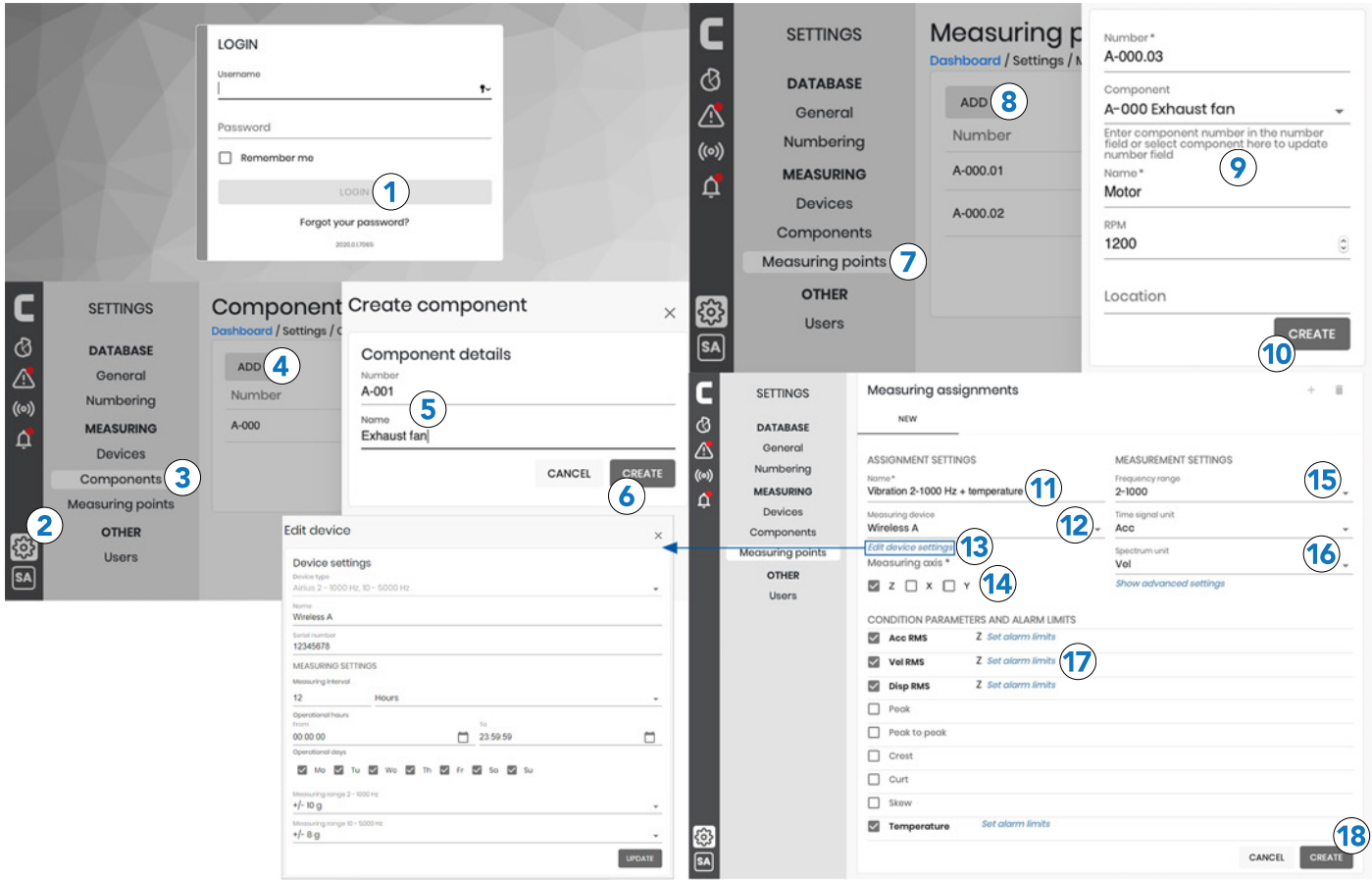
SETTING UP AIRIUS

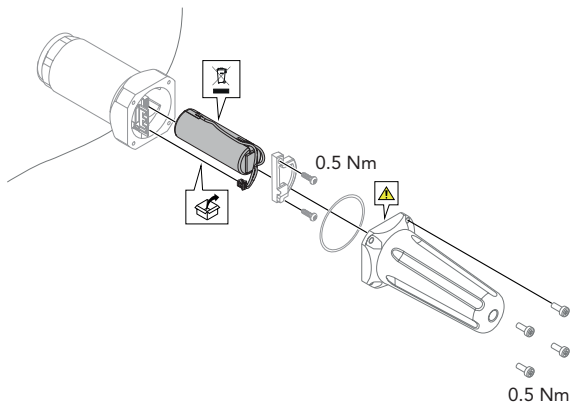
Airius II LTE-M is configured and linked to the subscription and Condmaster license when shipped from SPM Instrument, which means no setup other than the following is required to get started with Airius II LTE-M sensors:

1. Perform the mechanical installation, see *Mechanical installation, Airius vibration sensors*.
2. Press the button on the sensor to perform a function and connection test. Immediate green flashing means that the sensor is working. When the connection to Condmaster Entity Server (CES) is successful, the sensor flashes green. The number of green flashes corresponds to the LTE-M signal strength (1 flash = poor; 2 flashes = average; 3 flashes = good). If the connection is unsuccessful, the sensor flashes red (1 flash = could not connect to the server; 2 flashes = invalid subscription, contact your sales representative; 3 flashes = CES is offline; 4-5 flashes = CES did not respond).
3. Set up vibration measurements. Follow the steps in *Setting up vibration measurements in Condmaster Ruby* or *Setting up vibration measurements in Condmaster.NET*, depending on the software used.



NOTE: The local installation of CES must have access to CES Service Connector for the software services in Airius II LTE-M to work. For details, see 72341.





REPLACING BATTERY

When replacing the battery, appropriate ESD protection measures must be taken.

1. Loosen the four screws and carefully position the lid so it does not interfere with the battery replacement. The lid is attached to the antenna cable that is attached to the circuit board at the other end.



CAUTION: The lid and antenna cable should be handled with care. The antenna cable connected to the lid cannot be reassembled. Do not disconnect the antenna cable from the circuit board.

2. Loosen the two screws and remove the battery cover.
3. Remove the battery and disconnect the plug.
4. Connect the plug and insert the new battery (100064).
5. Screw on the battery cover. Tightening torque: 0.5 Nm.
6. Put the O-ring in place and screw on the lid. Tightening torque: 0.5 Nm.
7. Go to **Notifications** in Condmaster.NET and select **Confirm battery change** for the sensor. For further information, see section *Confirm Airius battery replacement* in the *Condmaster.NET User Guide*.



This product must be disposed as electronic waste and is marked with a crossed-out wheeled bin symbol in order to prevent it being discarded with household waste.

When the life cycle of the product is over You can return it to Your local SPM representative for correct treatment, or dispose it together with your other electronic waste.

