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	<b>PO-TI-046</b>	Revision: 1 Date: 07-05-2025 Status: Released Page: 1 of 14

<b>Title</b>	Testo Loggers – Temperature and humidity recording
<b>Purpose</b>	Defines the general use of the Testo temperature & humidity monitoring system

**0. Purpose**

This Technical Instruction (TI) defines the general use of the Testo temperature & humidity monitoring system and describes how to use and setup the different loggers with the Online platform.

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# Technical Instruction

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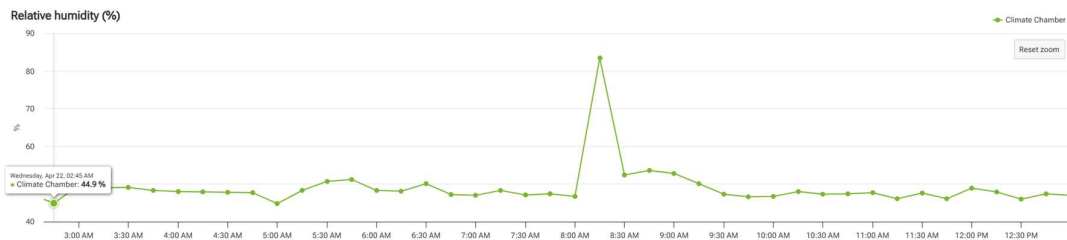
### 1. Generals

#### 1.1 Measurement cycle and alarm limits.

Location	Measurement profile	Mesuring cycle (minutes)		Lower alarm value	Lower warning value	Upper warning value	Upper alarm value	Warning delay (minutes)	Alarm delay (Minutes)
Chandoline 3	Ambient temperature 23°C	30	Temperature	21°C	21.2°C	24.8°C	25°C	5	30
			Hygrometry	-	-	-	85%	-	30
Incoming Inspection	Ambient temperature 5-30°C	15	Temperature	5°C	-	-	30°C	-	15
			Hygrometry	-	-	-	85%	-	15
Production Line	Ambient temperature 5-30°C	15	Temperature	5°C	-	-	30°C	-	15
			Hygrometry	-	-	-	85%	-	15
Ovens	Ovens temperature	1	Temperature	-	-	65°C	70°C	-	5
			Hygrometry	-	-	-	-	-	-
WIP	Ambient temperature 5-30°C	15	Temperature	5°C	-	-	30°C	-	15
			Hygrometry	-	-	-	85%	-	15
Production Store	Ambient temperature 5-30°C	15	Temperature	5°C	-	-	30°C	-	15
			Hygrometry	-	-	-	85%	-	15
Climate Chambers	Climate chamber	15	Temperature	20°C	-	-	23°C	-	30
			Hygrometry	40%	-	-	60%	-	60

Figure: Measurement cycle parameters and alarm thresholds

Remark : the “Alarm delay” durations aim at smothering out the temporary phenomema. For example , opening the climate chamber door to retrieve a part will typically lead to a short hygrometry increase (curve example below), these temporary phenomena are thus not considered.



#### 1.2 Types of data loggers used.

TESTO 162 T2: Temperature measurements, work with external probe from Testo 0572 1001.

TESTO 162 H1: Temperature and humidity measurements.

TESTO 162 H2: Temperature and humidity measurements, work with external probe from Testo 0572 2155.

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### 1.3 Data logger locations

Department	Location	N° Odoos	Type of Logger	Type of deported probe
<b>Supply Chain</b>	CDL3	E604	162 H1 (0527 1624)	-
	Production Store	E605	162 H1 (0527 1624)	-
	Incomming inspection	E606	162 H1 (0527 1624)	-
	Climate chamber 1	E610	162H2 (0572 1625)	yes (0572 2155) E611
<b>Production</b>	WIP	E609	162 H1 (0527 1624)	-
	Production Area	E608	162 H1 (0527 1624)	-
	Oven 1	E600	162T2 (0572 1622)	yes (0572 1001)
	Oven 2	E601	162T2 (0572 1622)	yes (0572 1001)
	Oven 3	E602	162T2 (0572 1622)	yes (0572 1001)
	Oven 4	E603	162T2 (0572 1622)	yes (0572 1001)

Figure: Data logger locations

### 1.4 Additional information about all data loggers.

Each data logger is recorded in the Maintenance Module of Odoos, and calibration certificates are linked to each device.

The Odoos ID of each device is indicated on the data logger (Exxx).



Figure: Data loggers with their unique Odoos ID

## 2. Testo Saveris Data cloud

This platform enables:

- The configuration of data loggers.
- The configuration of measurements zones.
- The definition of alarm thresholds.
- The consultation of recorded measurements.
- The generation of reports.

### 2.1 Log in to the platform

1. Go to the following address: <https://www.testo.com/de-CH/login/logins>
2. Click on the Testo Saveris Cloud login button.

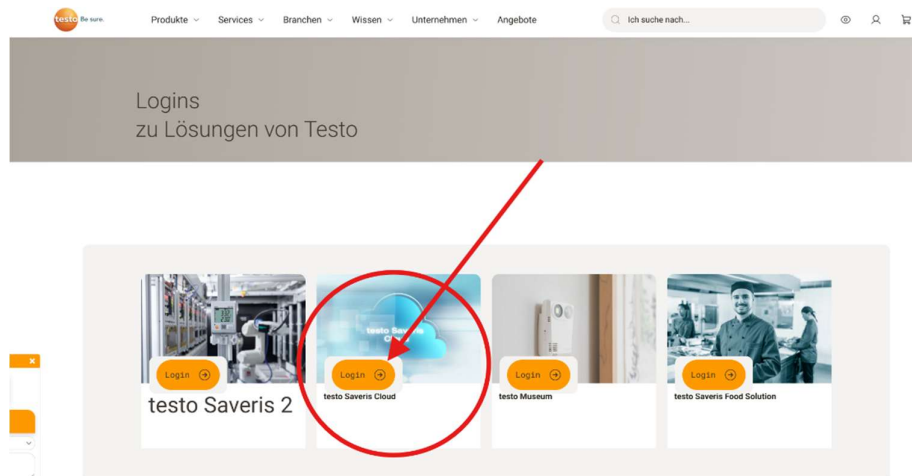


Figure: Testo Saveris main page login

3. Log in with your personal credentials.  
*If you don't have an account, contact the administrator of this platform (Facility Manager or Maintenance Specialist).*

Figure: Log in page

## 2.2 Measurement Profile

This menu allows alarm thresholds and/or warning limits for threshold exceedances to be defined. Access is via: **Data Monitoring** → **Measurement Profiles** → selection of the profiles to be configured.

It is possible to create a new measurement profile in this part as needed.

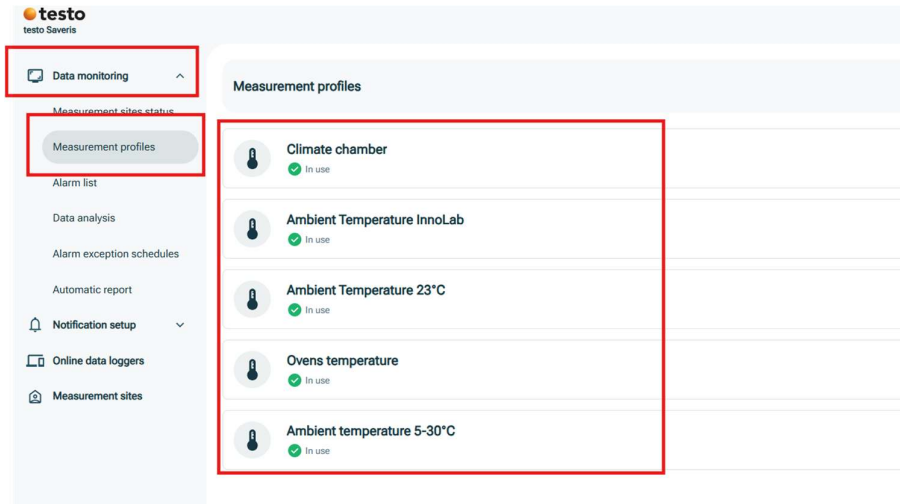


Figure: Measurement profiles setup

The configurable parameters are:

- Measurement profile name
- Measurement cycle (Time between two measurements)
- Alarms and warning threshold (Upper and lower)
- Alarm and warning notification delay

**Edit measurement profile**

Name: Climate chamber

Measuring cycle: 15 minutes

**Add physical properties**

Temperature  Door contact  Illuminance  Illuminance sum  Dew point temperature  Relative humidity

Absolute humidity  UV irradiance  CO<sub>2</sub> concentration  Absolute pressure

**Temperature**

Lower alarm value: 20 °C

Lower warning value: --- °C

Upper warning value: --- °C

Upper alarm value: 23 °C

**Alarm delay**

Warning delay: 0 minutes

Alarm delay: 30 minutes

Figure: Setup the measurement profile

### 2.3 Modify the measurement profile assigned to a room

This menu is used to change the measurement profile assigned to a room.

Access is via: **Data Monitoring** → **Measurement sites status** → selection of the site to be configured.

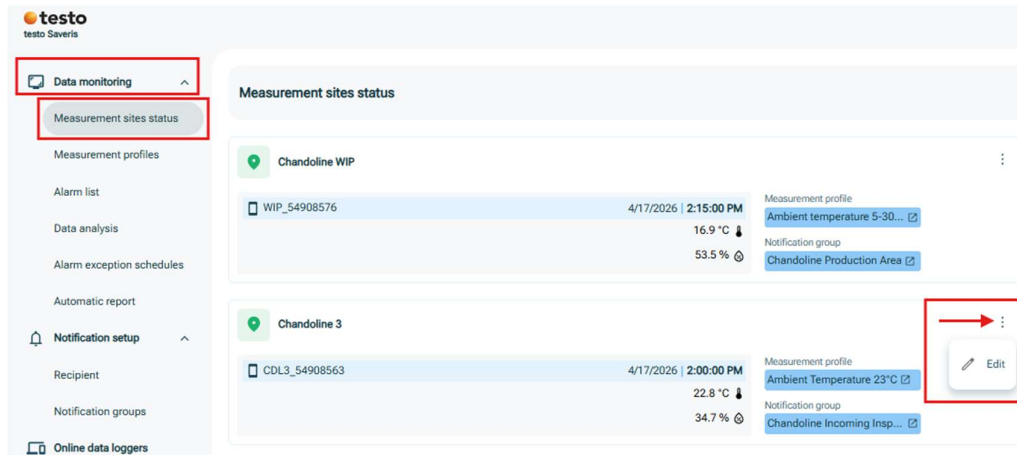


Figure: Select the site to be modified

Select the appropriate measurement profile from the existing list.

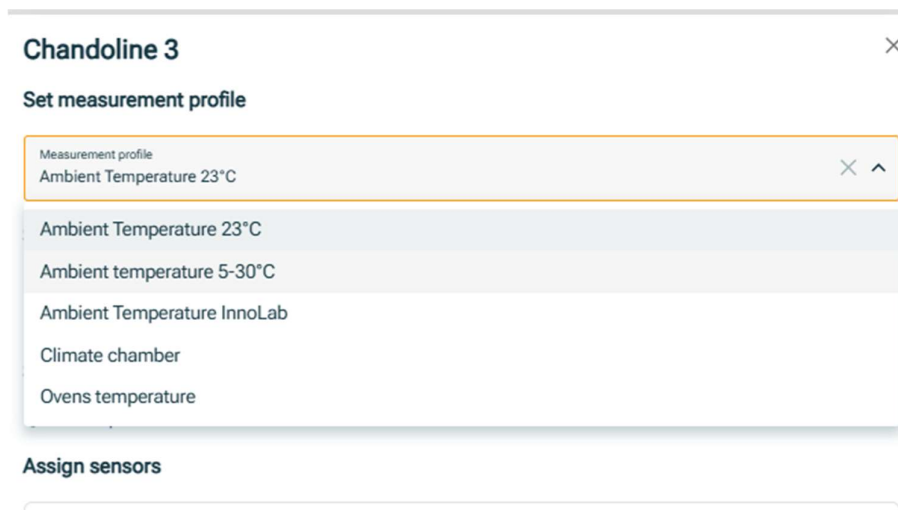


Figure : Selection of the measurement profile

If the measurement profile does not exist, a new measurement profile may be created, referring to Chapter 2.2

## 2.4 Modify the notification group assigned to a room

This menu is used to modify the group of people to be notified in case of threshold exceedance. Access is via: **DATA Monitoring** → **Measurement sites status** → selection of the site to be configured.

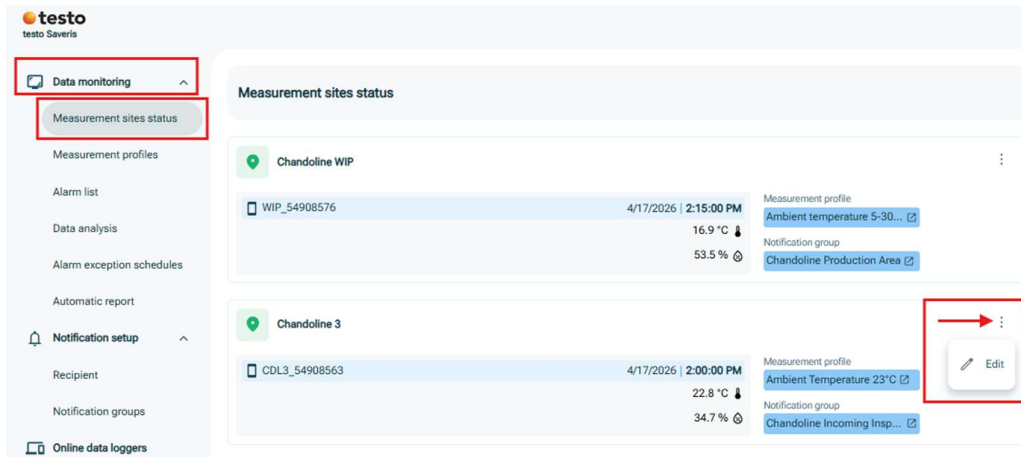


Figure: Select the site to be modified

Select the appropriate notification group from the existing list.

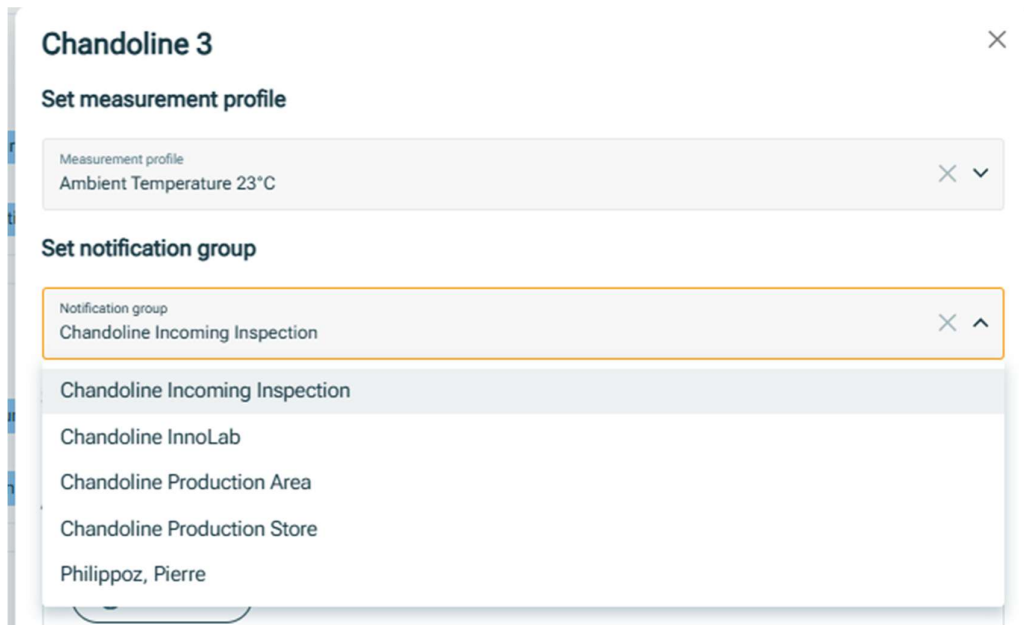


Figure : Selection of the notification group

If the notification group does not exist, a new notification group may be created, referring to Chapter 2.5

## 2.5 Notification group, add people and create new ones

This section is used to manage notification groups. It is possible to create new notification groups and to add or remove members from the different groups.

Access is via: **Notification setup** → **Notification group** → selection of the site to be configured.

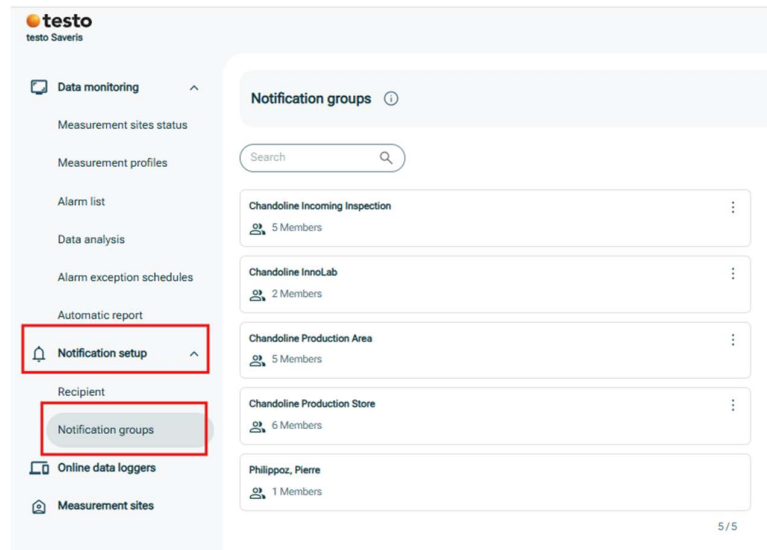
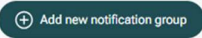


Figure: Notification groups page

For add a new notification group, press on  and defined a name. The new group is created

For manage members, **select the notification group** by clicking on the name → **Add/remove members** → remove or add by clicking on the + or – icon.

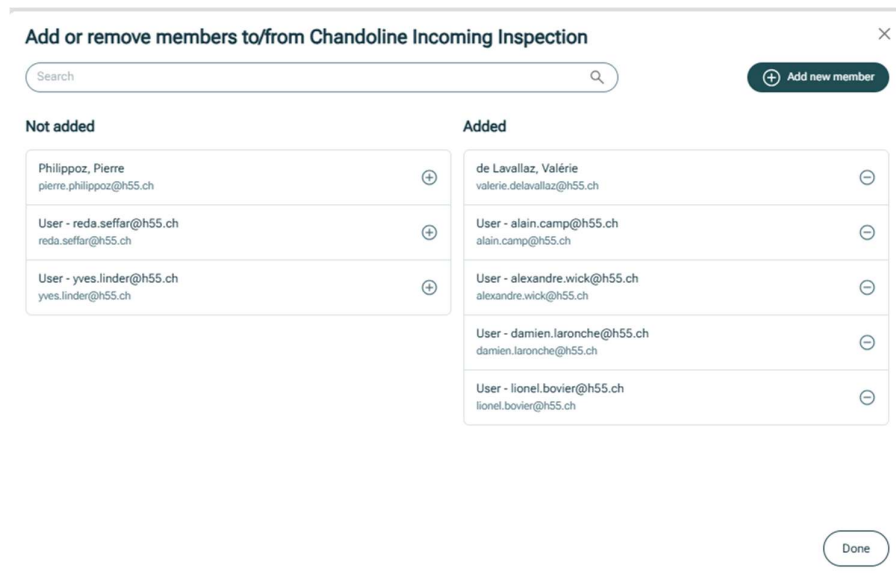


Figure: Add / remove members from a notification group

## 2.6 Configure automatic reports

This section allows you to view the automatically generated reports. It also allows you to manage the automatic generation of these reports.

Access is via: **Data monitoring** → **Automatic report** → selection of the site to be configured.

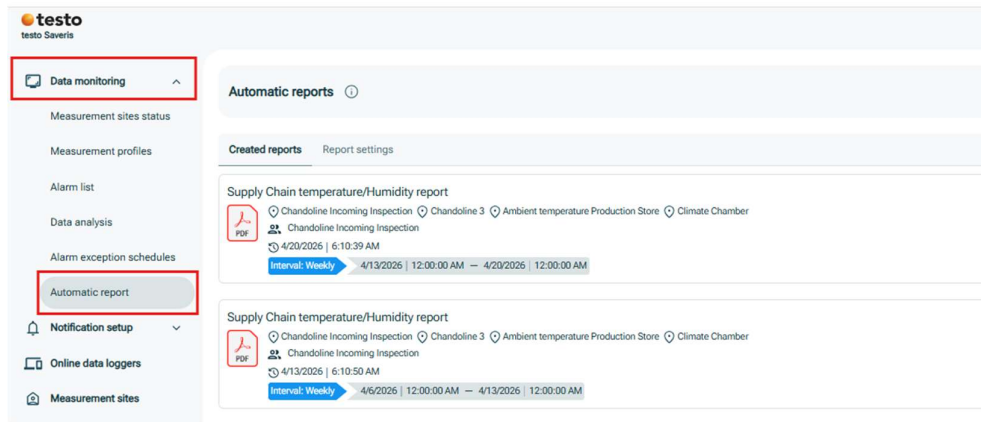
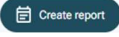


Figure: Automatic report page

By clicking on the  button, a window opens, allowing you to enter the information required to create a new automatic report.

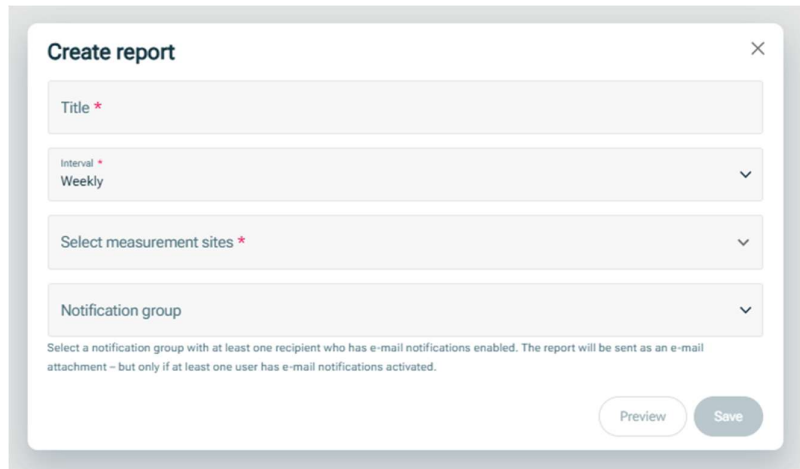


Figure: Create report windows

The “Report Settings” tab allows you to modify the settings of an existing automatic report.

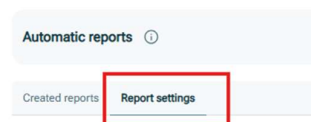


Figure: Report Settings

## 2.7 Data analysis

This section allows you to analyze the different curves recorded by the loggers. It is possible to export these curves in PDF or Excel format.

Access is via: **Data monitoring** → **Data analysis**.

Select one or more loggers, a date or a time range, and choose whether to display alarm markers.



Figure: Data analysis windows

## 2.8 Add a new Logger

This section explains how to add a new logger.  
Access is via: **Online data loggers**.

This menu allows you to view all registered loggers. The following information is displayed for each logger:

- Date and values of the latest measurements
- Battery and Wi-Fi status
- Active alarms, if any.

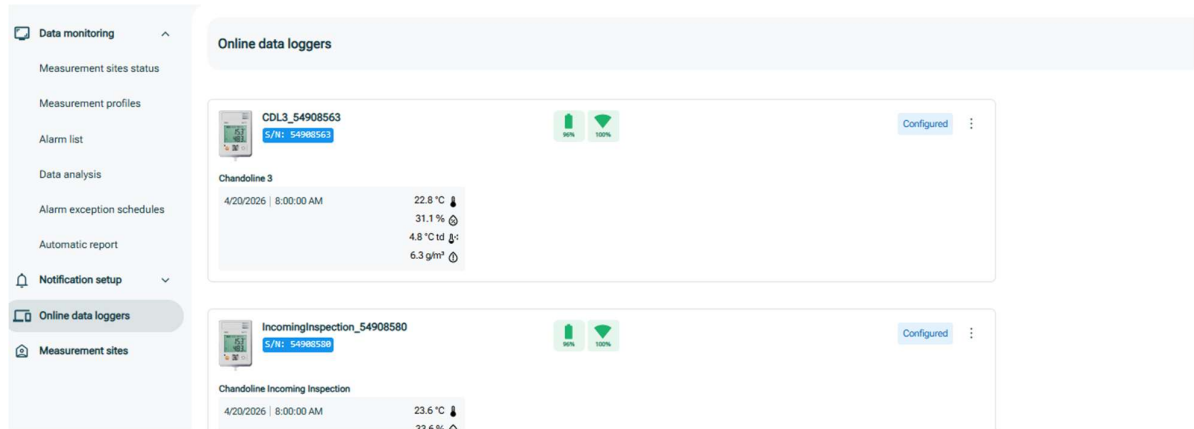
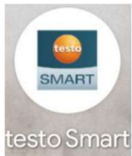


Figure: Online data loggers



A new logger must be added using the “Testo Smart” smartphone app.

In the application, open the Monitoring section

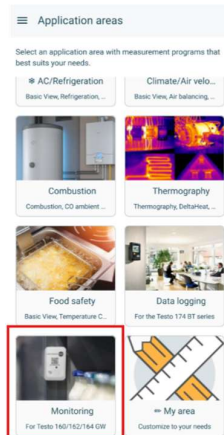
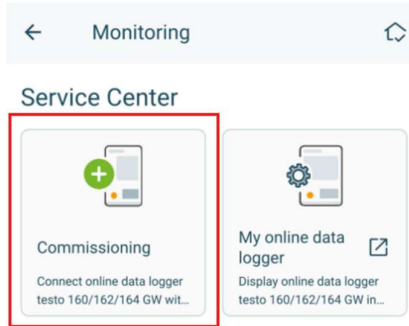



Figure: Monitoring section

Click on commissioning icon and follow the procedure.



*Figure: Commissioning section*

After completing the procedure for adding a new logger, the sensor appears in the “Online Data Loggers” section with the “Unconfigured” status. It must then be configured by referring to the previous chapters.

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### 3. Calibration

Loggers must be calibrated once a year.

This calibration is performed by a certified external company (TESTO).

The calibration certificates are stored under the corresponding equipment in Odoo.



# Technical Instruction

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### 4. Administration

#### 4.1 Responsibilities

- 4.1.1 This Technical Instruction is edited and issued by the Maintenance Specialist.
- 4.1.2 He monitors that sufficient information is available to the users for correct operation and maintenance.
- 4.1.3 He is also responsible to brief the concerned personnel accordingly and in due course.
- 4.1.4 All Technical Instructions will be stored and published on company server architecture.

#### 4.2 Amendments


- 4.2.1 In cases where parts of this Instruction cannot be applied as required, e.g. due to ambiguity, contradiction to other Procedures or to the applicable regulations, the Maintenance Specialist and the Quality Manager will find a mutually agreed solution that is conform to the requirements. In cases where such resolution cannot be found, they will involve the Head of PO for arbitration and final decision.
- 4.2.2 Any amendment or revision to this Instruction will be published as soon as possible and will take immediate effect. All staff will be informed in a training session (initial) or by e-mail and self-study (recurrent), and as appropriate for the impact of the amendment.

#### 4.3 Revision Status

Rev.	Reason for Revision	Affected pages	Name	Date
1	Initial Issue	All	PPH	07-MAY-2026
2				

Table 1: Revision Status

#### 4.4 Approvals

Checked by: Pierre Philippoz	Date 07.05.26	Signature 
Approved by: Damien Laronche Quality Manager	Date 07.05.26	Signature 