

# S120 Oil Vapor Monitor

## 1 Introduction

### About this guide

This quick user guide contains all instructions and safety information for operating and using the S120.

This guide is intended for qualified personnel involved in the operation of the S120.

Make sure you have fully read and understood the instructions before using the S120.



For more information, scan the QR code to see the instruction manual.

### About the S120

The S120 Oil Vapor Monitor is designed to monitor oil contents and dew point (optional) of compressed air and gases.

## 2 Safety instructions

### ⚠ WARNING

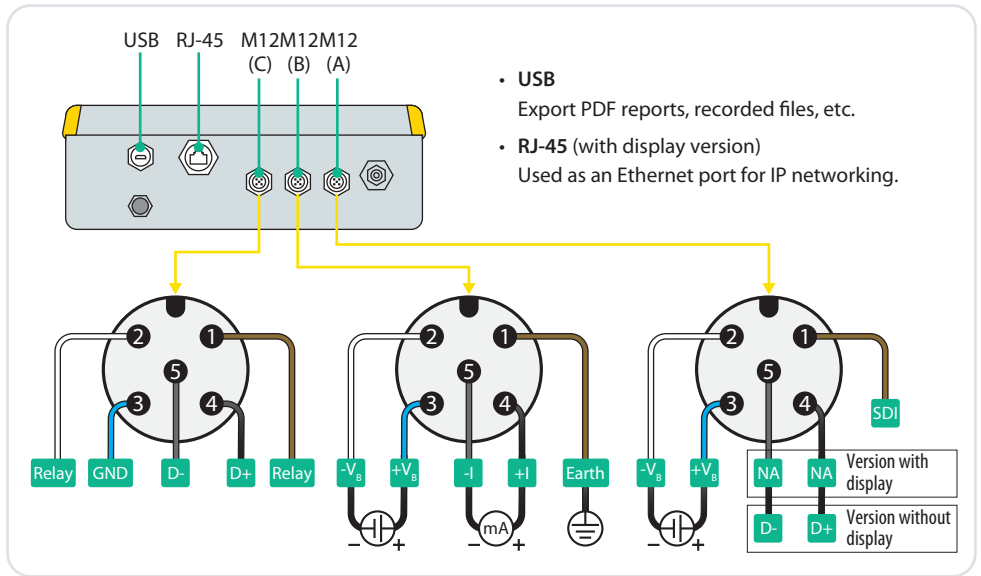
- Ensure to follow all national regulations before and during installation and operation.
- Only authorized and qualified personnel are permitted to install the device.
- Never install or use the device in designated explosive zones.
- Never disassemble the device. There are no serviceable parts inside.
- Never exceed the maximum permitted pressure range (see device label).
- Always keep the transportation temperature, storage temperature of the device between -10°C and 50°C.
- Always avoid direct UV and solar radiation when storing the device.
- Always keep the storage humidity of the device < 90% rH with no condensation.

## 3 Delivered components

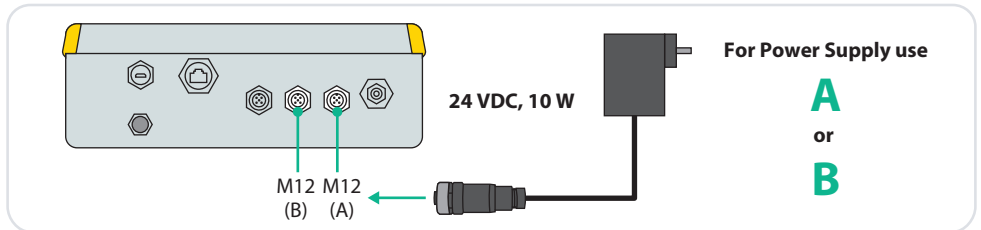


# 4 Operation

## Step 1 Electrical connection



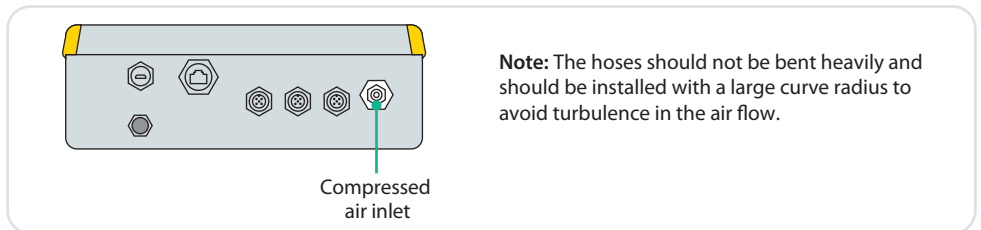
## Step 2 Power up the S120



## Step 3 Connect compressed air

### ⚠ ATTENTION

- Purge the measuring point before using the S120 on that point. For this, use the purge filter and check for rough contamination.
- The S120 can only be used after filtration, and cannot be used at the compressor outlet.
- The S120 can only be operated within this pressure range:  
Standard version: 3 ... 15 bar(g); low pressure version: 0.5 ... 3 bar(g)



## 5 Get started

After connecting the compressed air and power supply, the S120 starts working immediately. You can view real-time readings and curves on its home screen.



To obtain an accurate oil vapor content reading, sufficient measurement time is required. The minimum measurement time is shown in the table.

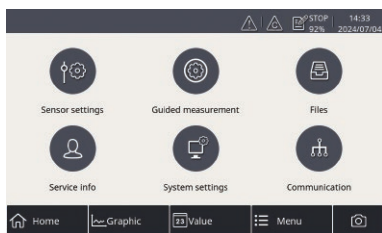
Oil vapor	Input pressure	Minimum measurement time					
		Standard version			Low pressure version		Ambient version
		3 bar	7 bar	15 bar	1.5 bar	3 bar	1 bar
$\leq 0.1 \text{ mg/m}^3$		70 min	45 min	35 min	70 min	45 min	45 min
$0.1 \sim 5 \text{ mg/m}^3$		30 min	20 min	17 min	30 min	20 min	20 min

For more settings, click **Menu** > **sensor settings** on the S120 display.

## 6 Compressed air quality audit

Take monitoring with programmed time out as an example.

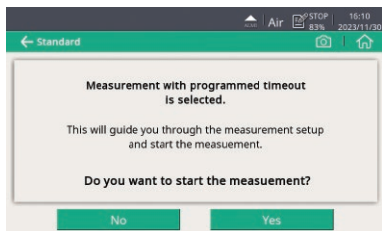
### 1 Click **Menu** > **Guided Measurement**



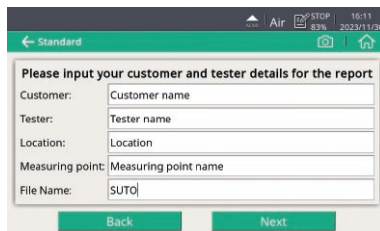
### 2 Click **monitoring with time out**



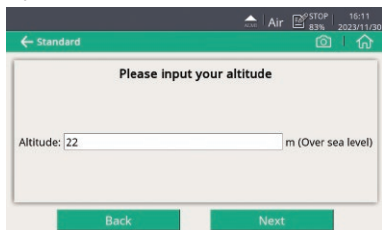
### 3 Confirm to start measurement



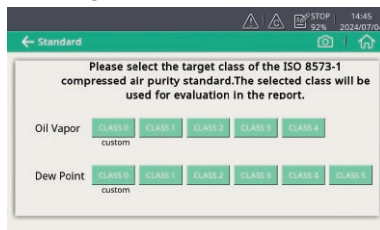
### 4 Enter information



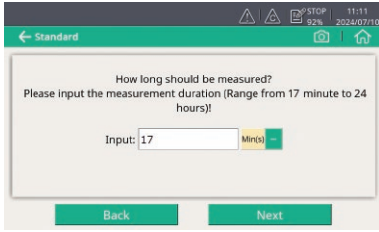
### 5 Input altitude



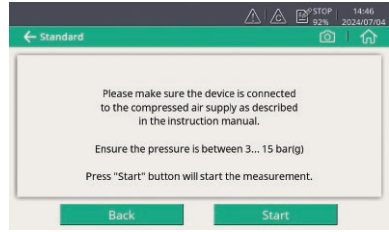
### 6 Select target class



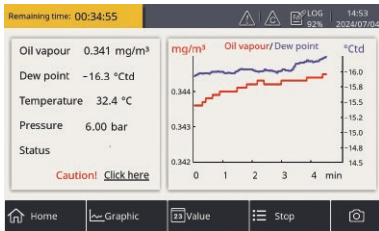
### 7 Enter measurement duration



### 8 Check connection and pressure, then start



### 9 Under measurement



### 10 View and export reports on Report Manager interface

Index	Measurement type	Log file	Start time	<input type="checkbox"/>
0	Monitoring	LOG00026.CSD	08.11.2018 09:12	<input type="checkbox"/>
1	Standard	LOG00025.CSD	10.10.2018 10:44	<input type="checkbox"/>
2	Monitoring	LOG00022.CSD	09.10.2018 13:22	<input type="checkbox"/>
3	Standard	LOG00021.CSD	05.09.2018 11:31	<input type="checkbox"/>
4	Monitoring	LOG00020.CSD	05.09.2018 11:14	<input type="checkbox"/>

### ATTENTION

- Observe the remaining time, and wait until the measurement is finished.
- Do not power off the S120 during the measurement to avoid losing data.

## 7 Export PDF reports

### 1 Insert the USB stick into the S120



### 3 Select files to be exported

Index	Measurement type	Log file	Start time	<input type="checkbox"/>
0	Monitoring	ABC.CSD	06.01.2025 09:07	<input checked="" type="checkbox"/>
1	Standard	LOG00118.CSD	06.01.2025 08:50	<input checked="" type="checkbox"/>

### 2 Click Menu > Guide measurement > Report Manager

### 4 Click Export to export files to the USB stick

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