

S601

Stationary Compressed Air Purity Monitor

1 Introduction

About this guide

This quick user guide contains all instructions and safety information for operating and using the S601.

This guide is intended for qualified personnel involved in the operation of the S601.

Make sure you have fully read and understood the instructions before using the S601.



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

About the S601

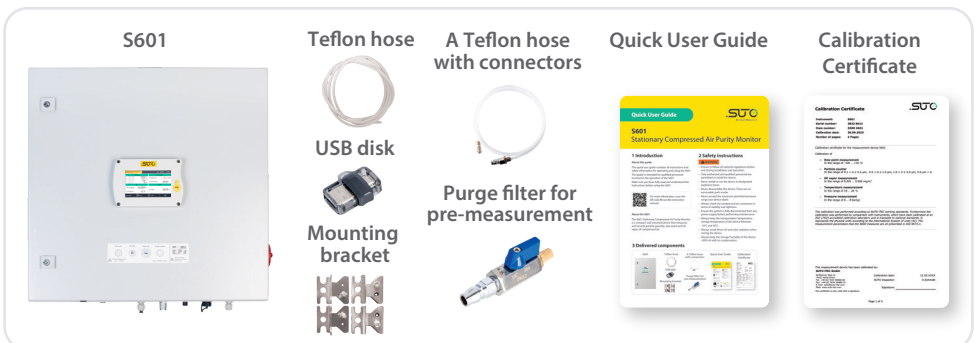
The S601 Stationary Compressed Air Purity Monitor is a compact wall mounted device that measures and records particle quantity, dew point and oil vapor of compressed air.

2 Safety instructions

⚠ WARNING

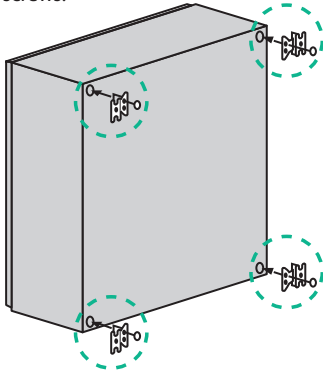
- Ensure to follow all national regulations before and during installation and operation.
- Only authorized and qualified personnel are permitted to install the device.
- Never install or use the device in designated explosive zones.
- Never disassemble the device. There are no serviceable parts inside.
- Never exceed the maximum permitted pressure range (see device label).
- Always check the compressed air connectors in terms of stability and tightness.
- Ensure the system is fully disconnected from any power supply before performing maintenance.
- 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

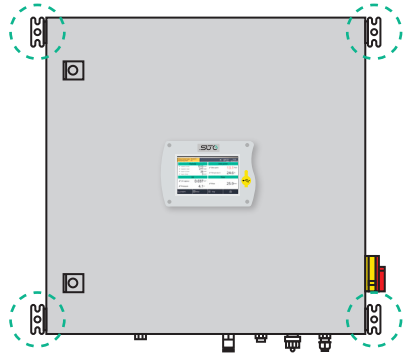


4 Installation – Mount on the wall

- 1 Secure four installation brackets to the cabinet using screws.

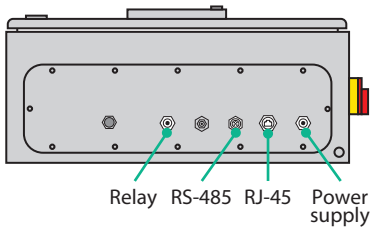


- 2 Use the brackets to install the cabinet onto a flat surface, such as a wall.

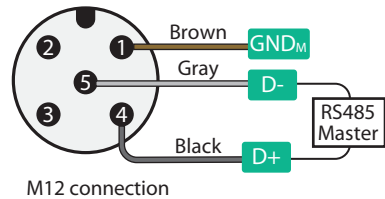


5 Operation

Step 1 Electrical connection

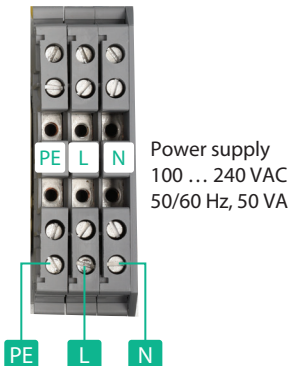


- 1 RS-485 (Modbus/RTU) connection

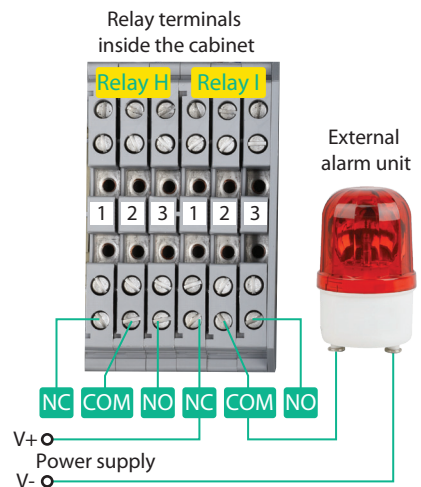


- 2 Power supply

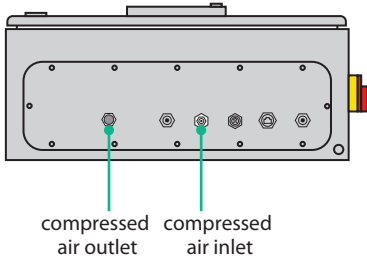
Power supply terminals
inside the cabinet



- 3 Example of a wiring diagram for the relay and an external alarm unit (24 VDC).



Step 2 Compressed air connection



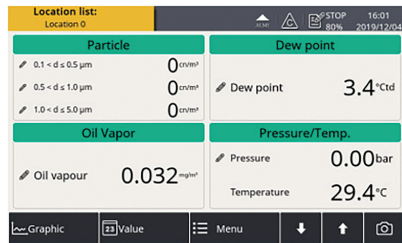
⚠ ATTENTION

- The S601 is used for post-filtration, not at the compressor outlet. The quality of the supplied compressed air must meet or exceed Class 4.5.4, as specified in ISO 8573-1.
- Purge the measuring point before using the S601 on that point. For this, use the purge filter, and check for rough contamination.
- Make sure the pressure range of the air is 3... 15 bar(g).

Step 3 Start monitoring

After electrical connection and compressed air connection are done, the S601 start to monitoring.

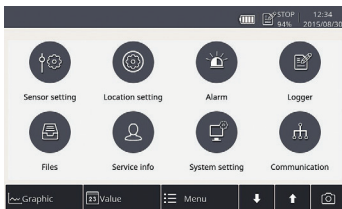
The S601 display shows online readings of particle quantity, dew point, and oil vapor.



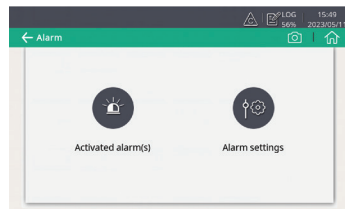
6 Others

6.1 Alarm settings

- 1 Click **Alarm** on the **Menu** page



- 2 Click **Alarm settings**



- 3 Click **Add** to add a channel, and set its parameters such as thresholds, direction, relays

Channel	Unit	Threshold	Hysteresis	Direction	Relay
0 Location 0 Particle 0.1 < d ≤ 0.5 µm	cm ³ /m ³	5000	0	Up	Relay 1
1 Location 0 Dew point Dew point	°C _d	-11	0	Up	Relay H
2 Location 0 Oil Vapor Oil vapour	ppm	0.1	0	Up	Ext. Rel.

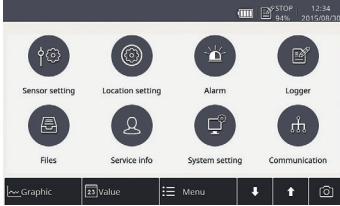
- 4 View all active alarms on the **Activated alarm(s)** page

Channel	Unit	Threshold	Time & Date	Direction	Dismiss
Location 0 Particle 0.3 < d ≤ 0.5 µm	cm ³ /m ³	10000	09:46 2024/06/17	↑	[X]
Location 0 Particle 0.5 < d ≤ 1.0 µm	cm ³ /m ³	2000	09:45 2024/06/17	↑	[X]

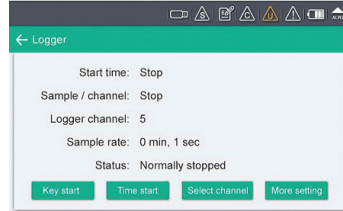
6.2 Logger and recorded files

Step 1 Set logger parameters

1 Click **Logger** on the **Menu** page



2 Set parameters



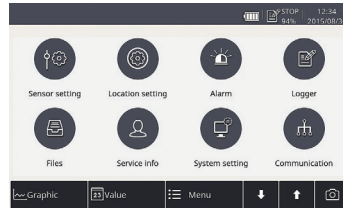
- Select key start or time start, and configure channels, logging intervals, etc.
- When starting recording, a stop button appears; click it to stop recording.
- When the logger stops, the recorded files are saved in **Menu > Files > Recorded files**.

Step 2 Export recorded files

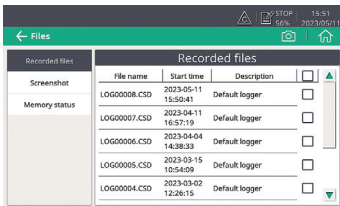
1 Insert the USB stick into the S601



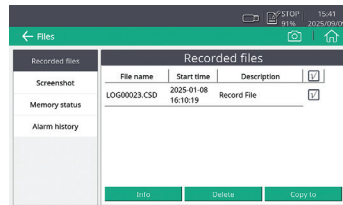
2 Click **Files** on the **Menu** page



3 All recorded files are shown



4 Select files to be exported, and click **Export** to export files to the USB stick



For more settings, such as communication settings and sensor settings, see S601 Instruction Manual.

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