

S551

Portable Display and Data Logger



**AUTO
DETECT**
SDI or Modbus-based
SUTO sensors



**VERSATILE
CONNECTION**
Up to 24 sensors
inputs



**LTE / 4G
MODEM**
Access from
world wide



**TOUCH
SCREEN**
5" large color LCD



**TIGHT
PROTECTION**
IP65



**BACK-UP
POWER**
Battery as
back-up power

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Benefits

- ✓ Easy to use and cost-effective data logging solution at the point of use.
- ✓ S4A software for data analysis and remote connection via 4G / LTE Modem
- ✓ Connectable sensors for all required measurement tasks
- ✓ Up to 24 inputs through extension boxes and Modbus/RTU
- ✓ Third-party sensors can be easily connected

On site Logging

- Ultra portable and robust design to perform measurement tasks and audits on site
- High resolution 5" color touch screen interface, making the operation as simple as possible.
- Back up battery ensures continuous measurement and prevents data loss during power glitches and cuts.

Plug & Play

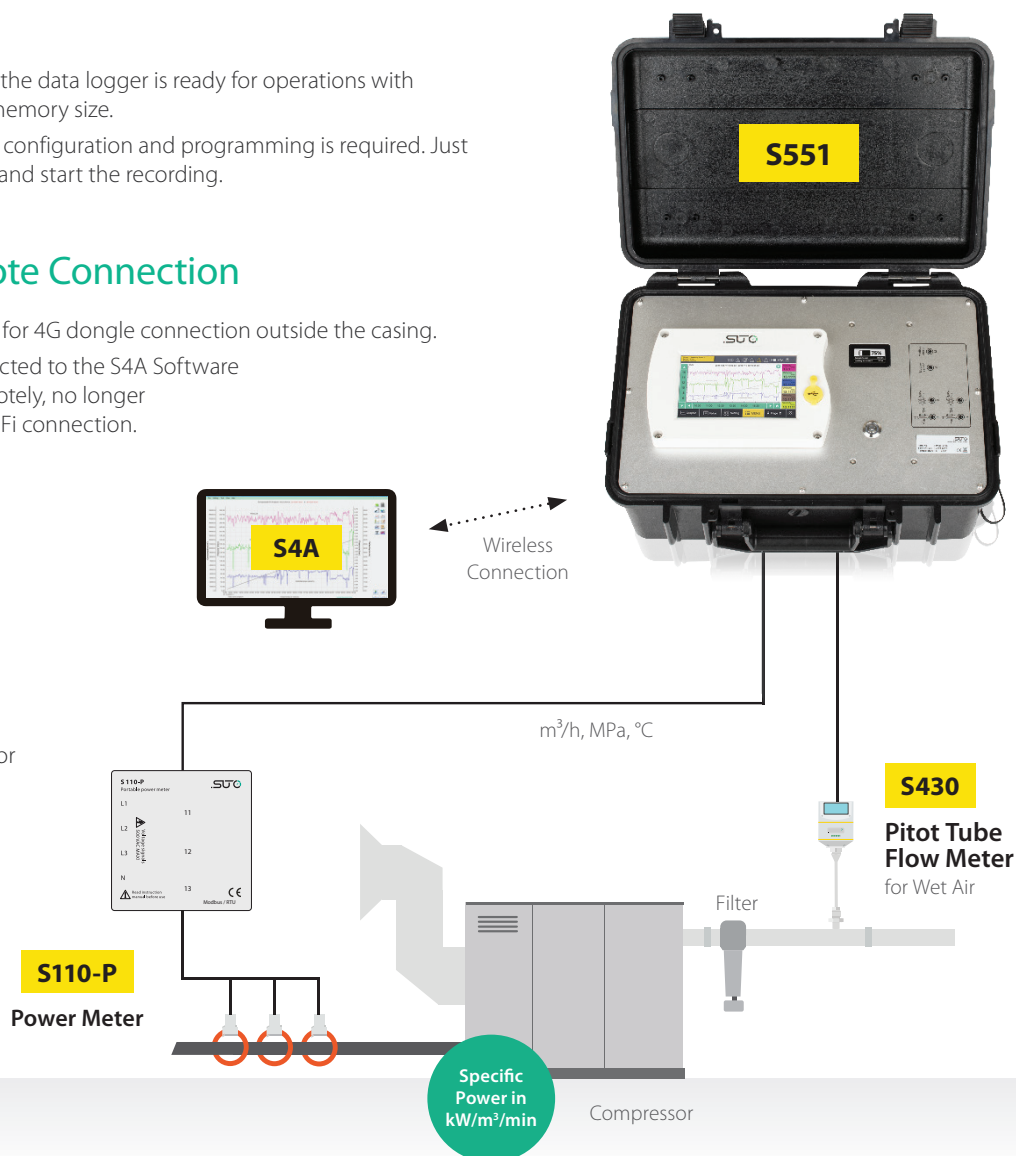
- With a few settings, the data logger is ready for operations with virtually unlimited memory size.
- No time consuming configuration and programming is required. Just connect the sensor and start the recording.

Optional Remote Connection

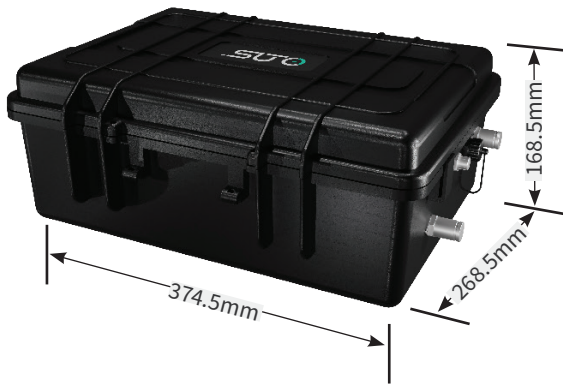
- Integrated USB port for 4G dongle connection outside the casing.
- Can be easily connected to the S4A Software and monitored remotely, no longer dependent on a Wi-Fi connection.

Compressor Efficiency Test

Knowing your Compressor Efficiency is the first step for your energy saving requirements



Applications



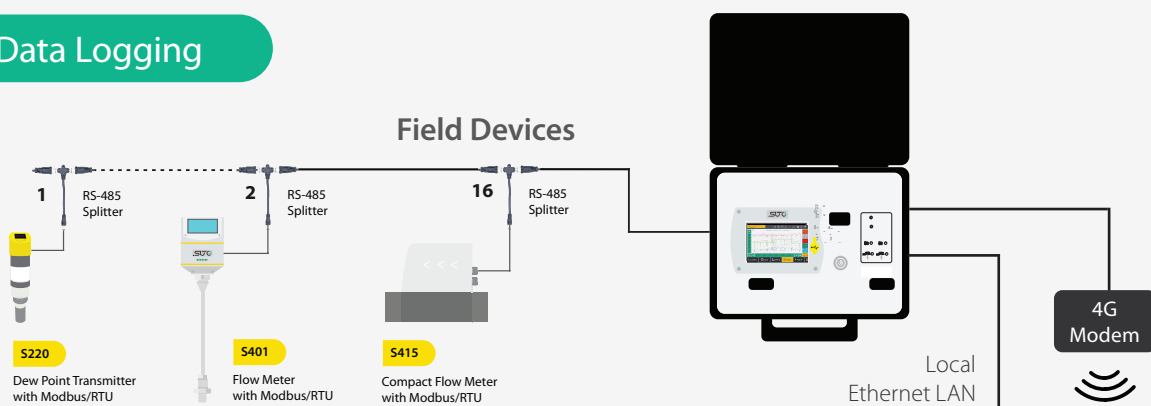
The S551 Portable Display and Data Logger is the perfect tool for compressed air service engineers as well as compressed air experts.

Due to its compact design and the integrated battery, on-site measurements are carried out most efficient user friendly. From simple dew point spot check up to identifying insufficient compressor systems, the S551 is the tool to make these measurements.

Remote Data Analysis

The S551 is capable of sending measurement data and status information to a remote server through the Internet. This allows users to monitor the system remotely. The illustration below shows the principle setup.

Data Logging



Data Analysis

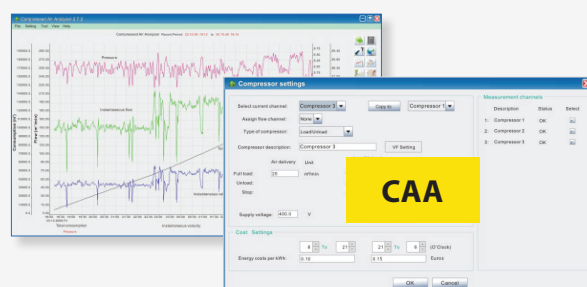
Through the free SUTO S4A software recordings are down-loaded to the PC via USB, LAN or wirelessly using the LTE/4G Modem. The basic analysis can be done in S4A.

For more sophisticated compressor analysis, the SUTO CAA software (incl. in S551) offers many advanced features such as:

- Performance statistics of compressors (efficiency, air delivery, load/unload cycles)
- Leakage analysis
- Report generation
- And more...

Comparisons with baseline measurements from last year or last month help to identify system changes.

Remote Office Location



Versatile Connections and Sensor Inputs

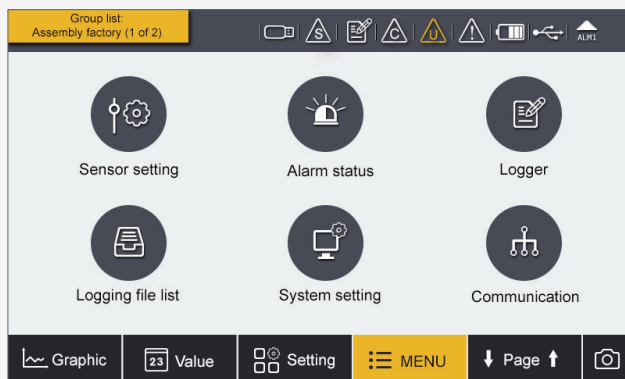
- Connectable sensors for all required measurement tasks (air flow, air consumption, power consumption, pressure, temperature and many more)
- Up to 24 inputs through extension boxes and Modbus/RTU
- Third-party sensors can be easily connected



Industrial quick connectors allow a plug & play setup and ensure a reliable sensor connection.



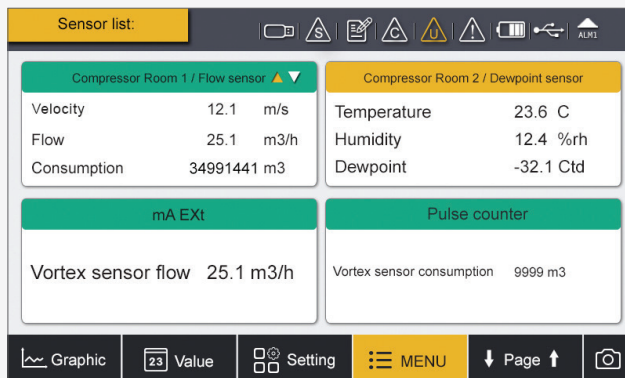
Industrial Ethernet Port for LAN connections



User Friendly Interface

The S551 comes with a high resolution 5" color touch screen interface making the operation as simple as possible.

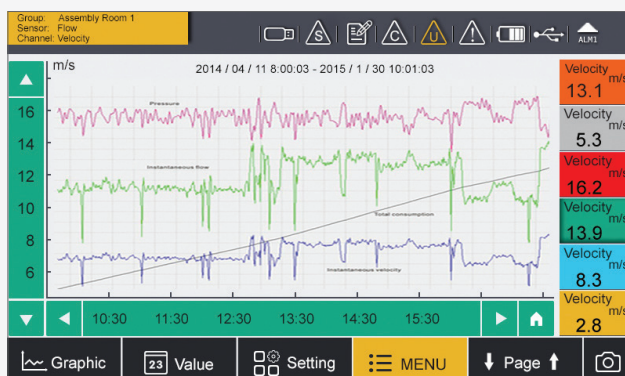
SUTO intelligent sensors are detected automatically on power-up. With a few settings the data logger is ready for operations with virtually unlimited memory size.



Sensor Data Overview

Up to 4 sensors can be viewed on one page and through page scrolling further sensors can be displayed.

This makes it easy to monitor different sensors at the same time.



Graphic Charts for Quick Analysis

Select which channels you want to view or analyze and the built in graphic analyzer will help you identify problems immediately.

For detailed analysis we recommend using SUTO software S4A, CAA or S4M.

Technical Data

Signal / Interface & Supply

Data logger

Storage	4 GB, up to 100 million values
Sampling rate	The minimum time interval is 1 second

Digital input

Interface	2 x SDI connectors, 2 x Modbus/RTU-connectors
Update rate	Value updated every 1 sec
No. of connectable Sensors	2 x SDI sensors 16 x Modbus/RTU sensor

Analog input

Signal	Analog (0 ... 20 mA, 4 ... 20 mA, 0 ... 1 V, 0 ... 10 V), Pulse
Burden	Max. 250 Ohm
Update rate	Value updated every 1 sec

Fieldbus output

Protocol	Modbus/RTU, Modbus/TCP
Update rate	Value updated every 1 sec

Other outputs

Communication Interface	4G/LTE (optional)
Purpose	View the online measurement values, read out the logging files remotely through S4A software and USB 4G dongle

Supply

Main power supply	100 ... 240 VAC, 50/60 Hz, 1.4 A
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Data interface

Connection	USB micro, LAN (Ethernet)
Purpose	Read logger files & screenshots, show live data
Integrated web server	Remote monitoring (LAN)

General data

Configuration

PC Software	S4C-Display (via USB or LAN)
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Display

Integrated touch screen	5" high resolution graphic display, 800 x 480 pixels with touch interface
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Material

Housing	PC + ABS
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Miscellaneous

Electrical connection	2x M12 (5 pole) for SDI; 2x Optional M12 (5 pole) for analog and pulse; 2x M12 (5 pole) for Modbus/RTU; 1x RJ45 Ethernet
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Protection class	IP65 (only if the suitcase lid is closed and locked)
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Weight	4 kg
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Operating conditions

Operating temperature	0 ... +50 °C
Storage humidity	< 90 %
Storage temperature	-20 ... 50 °C
Transport temperature	-20 ... 50 °C

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