

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



Benefits

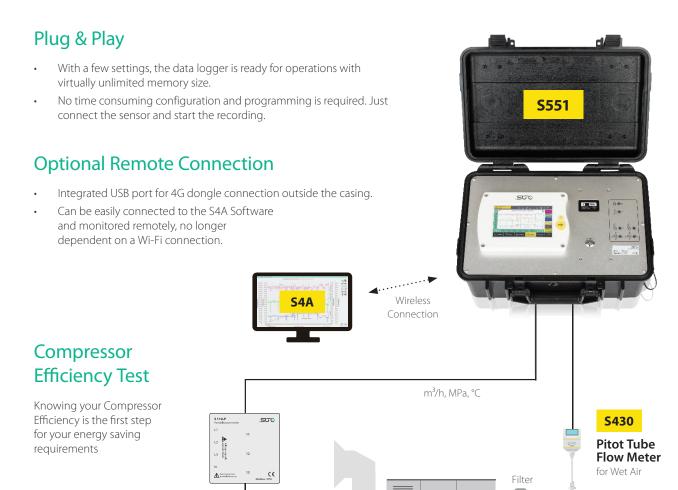
- Easy to use and cost-effective data logging solution at the point of use.
- S4A software for data analysis and remote connection via 4G / LTE Modem
- Connectable sensors for all required measurement tasks
- Up to 24 inputs through extension boxes and Modbus/RTU
- Third-party sensors can be easily connected

On site Logging

• Ultra portable and robust design to perform measurement tasks and audits on site

S110-P Power Meter

- 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.



Specific Power in

kW/m³/min

Compressor



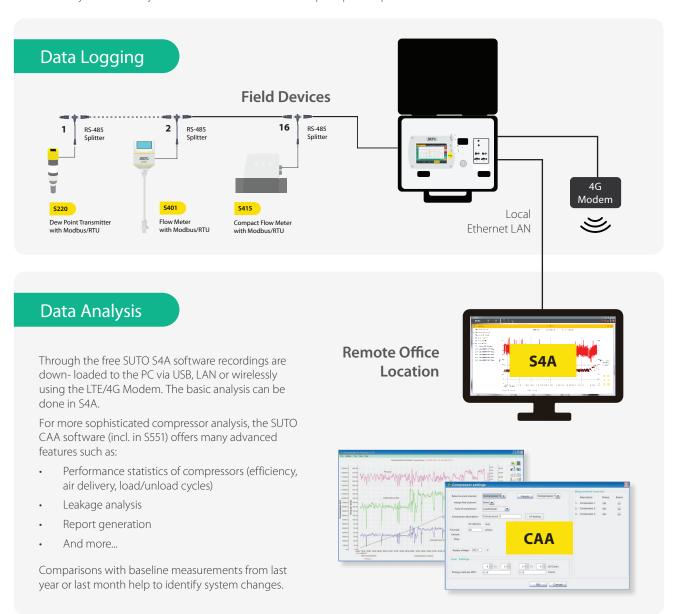
Applications

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

Due to it's 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.



Versatile Connections and Sensor Inputs

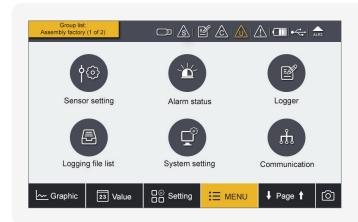
- Connectable sensors for all required measurement tasks (air flow, air consumption, power consumption, pressure, temperature and many more)
- Up to 24 inputs through extension boxes and Modbus/RTU
- Third-party sensors can be easily connected



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



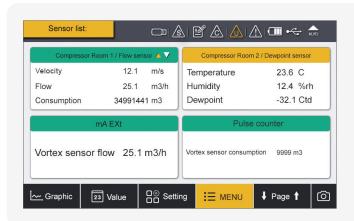
Industrial Ethernet Port for LAN connections



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	2 x SDI sensors	
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	
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)
Display	
Integrated touch screen	5" high resolution graphic display, 800 x 480 pixels with touch interface
Material	
Housing	PC + ABS
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
Protection class	IP65 (only if the suitcase lid is closed and locked)
Weight	4 kg
Operating conditions	
Operating temperature	0 +50 °C
Storage humidity	< 90 %
Storage temperature	-20 50 °C
Transport temperature	-20 50 °C





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Please use the following tables to assist in placing your order with our sales staff.













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Data logger	
P560 5100	S551-P4, Portable Display and Data Logger, 4 digital input channels, power cord, USB cable, S4A software, CAA software
P560 5101	S551-P6, Portable Display and Data Logger, 4 digital input channels and 2 analog, power cord, USB cable, S4A software, CAA software
A1670	USB 4G dongle for S551/S600, including S4A software
Flow sensors	s
S601 0401	S401, 300 mm Shaft, insertion type thermal mass flow meter, max measuring range, DN15 DN300, Modbus/RTU, including 5 m cable with connector to S551
S601 0430	S430, 220 mm Shaft, insertion type Pitot tube flow meter for wet air, DN25 DN250, Modbus/RTU, including 5 m cable with connector to S551
Dew point so	ensor
S601 0215	S215 Dew Point Transmitter, -20 +50 °C Td, Measuring chamber with quick coupling, 5 m cable with connector to S551
S601 0211	S211 Dew Point Transmitter, -60 +20 °C Td, Measuring chamber with quick coupling, 5 m cable with connector to S551
S601 0220	S220 Dew Point Transmitter, -100 +20 °C Td, Measuring chamber with quick coupling, 5 m cable with connector to S551
Pressure sen	isors
S694 1886	Pressure Transmitter, 0 1.6 MPa(g), 4 20 mA including a 5 m cable with connector to S551 (works only on S551-P6)
S694 0356	Pressure Transmitter, 0 4.0 MPa(g), 4 20 mA including a 5 m cable with connector to S551 (works only on S551-P6)
S694 1887	Pressure Transmitter, 0 1.6 MPa(g), Modbus/RTU including a 5 m cable with connector to S551 (works on S551-P4 & P6)
S694 1888	Pressure Transmitter, 0 4.0 MPa(g), Modbus/RTU including a 5 m cable with connector to S551 (works on S551-P4 & P6)
Amp sensor	
S554 0156	Electrical Current Transmitter, 1000A, 100 mm diameter, including connector to S551
S554 0157	Electrical Current Transmitter, 3000A, 150 mm diameter, including connector to S551
Temperature	e sensor
S693 0005	Temperature Transmitter, -50 +200 °C, 4 20 mA loop powered, 6 x 150 mm sensor tube, 5 m cable with connector
A554 6003	Compression fitting, 6 mm, G ½" thread, 0.6 MPa
A554 6004	Compression fitting, 6 mm, G ½" thread, 1.6 MPa
Power mete	r (for 3 phase and single phase measurement)
P554 0134	Portable Power and Energy Meter S110-P, Modbus/RTU, including 4 test leads, 4 test clips, 5 m cable with connector to S551
S554 0160	Electrical Current Transmitter for S110-P, 1000 A, 100 mm diameter, 1.8 m cable, connector to S110-P
S554 0161	Electrical Current Transmitter for S110-P, 3000 A, 150 mm diameter, 1.8 m cable, connector to S110-P
S554 0162	Electrical Current Transmitter for S110-P, 100 A, 160 mm diameter, 1.8 m cable,

Note: For 3 phases power supply 3 Rogowski coils are needed.

connector to S110-P

Ordering

Please use the following tables to assist in placing your order with our sales staff.



Other sensors / extensions		
P554 0080	8 channel analog input extension, connectable to S551, including 5 m cable with connector, 2-wire sensors support only	
	Note: we offer other two models which supports 3-wire inputs and combination of 2-wire and 3-wire. Please contact the sales.	
A554 3314	Portable Modbus/RTU splitter box, with M12 connector	
Accessories	5	
A553 0103	Extension cable, 5 m, male-female connectors	
A553 0110	Open wires cable, 5 m cable with connector to \$551	
A553 0111	Sensor cable, M12, 5 m with connector to S551	
A554 0035	Transport case S551 for sensors and cables, L560 x W450 x H160 mm (internal compartment can be arranged according to your individual sensor requirements)	
A554 0036	Transport case, customized for 1 x S110-P, 3 Rogowski coils, 4 x test leads, 4 x test clips, 1 x S430	

^{*} Please contact us for further accessories and details.



