

.SJJO Display and Data Logger







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TOUCH SCREEN

5" large color LCD



world wide



DATA LOGGER 100 million values





Benefits

 Central unit of a compressed air monitoring system, collecting, recording and visualizing all measurement data

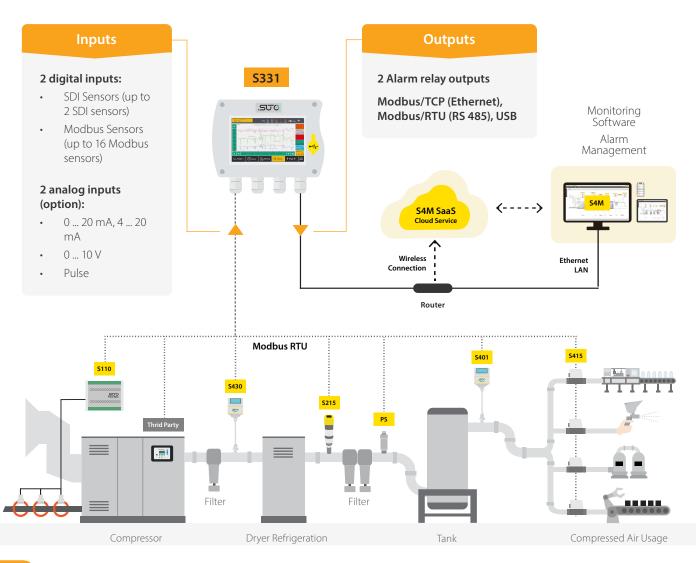
- High-resolution 5" color touch screen for easy operation and on-site data visualization
- Connect up to 16 Modbus/RTU sensors, 2 analog sensors and 2 SDI sensors to a single data logger

 Modbus/RTU and Modbus/TCP output alway included for a seamless integration into existing monitoring and building management systems

Alarm monitoring for all measurement channels with on-screen indication and 2 relay outputs

Plug and Play Data Logging – Process Visualization and Analysis

The S330/S331 Display and Data Logger provides an universal solution for displaying and recording all relevant parameter of a compressed air system, which includes flow, dew point, pressure, temperature, power consumption, compressor status, and so on. The devices offer a powerful yet cost efficient data logger and display solution for optimal and reliable management and monitoring of your compressed air system.



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Applications

The S331 Display and Data Logger is used to gather and collect measurement data of various field devices. It acts as the central unit where all measurement data is safely stored and visualized. The digital communication outputs are not making it a display and data logger, but also a gateway to connect to IIoT services, as well as to connect it to modern software solutions

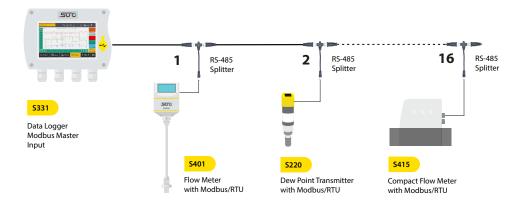
Available Installation Options



SUTO Modbus/RTU Sensor Input

The S330 / S331 includes digital inputs for SUTO SDI sensors and Modbus/RTU sensors. To connect the Modbus/RTU sensors properly on an RS 485 bus system, it's recommended to daisy-chain the sensors to one of the inputs. For this purpose, SUTO offers a RS 485 splitter to simplify the connection.

Through this method, users can add up to 16 sensors to the master input, making it most versatile and allowing to monitor whole plants with a single data logger. (Additional power supplies for field devices might be necessary)

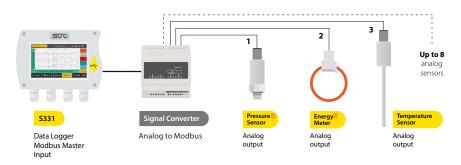




2 Analog Sensor Input

The S330 / S331 can be equipped with an analog input option, allowing to connect 0/4... 20 mA, 0...10 V and pulse signals from field sensors. If more analog sensors need to be connected, a Analog-Modbus/RTU converter module can be easily connected, allowing to connect additionally 8 analog sensors.

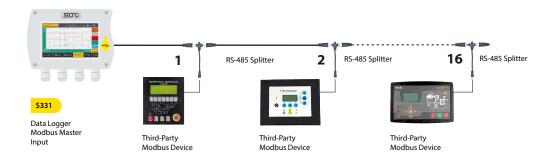
This makes the S330 / S331 most versatile and offers the possibility to connect existing field hardware and sensors seamlessly into the monitoring system.



3 Third-Party Sensor and Field Device Support

By relying on the industry standard protocol Modbus/RTU, the S330 / S331 does support third-party sensors to be easily integrated into the monitoring system. Field devices can be easily set up using the configuration software, allowing to add third-party sensor within seconds.

Of course, all connected sensor data can be logged to the internal memory, used for virtual channel calculations and real-time values are forwarded to connected software and monitoring solutions.



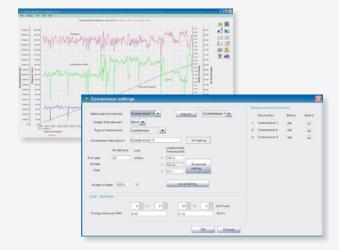
Data Analysis

Through the free SUTO S4A software recordings are downloaded to the PC via USB, LAN or wirelessly using the LTE/4G Modem. The basic analysis can be done in S4M.

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.







| 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.

| Sensor list: | | | |
|--|--|-------------------------------------|---------------------------------|
| Compressor Room 1 / Flow sensor 🔺 🗸 | | Compressor Room 2 / I | Dewpoint sensor |
| Velocity Flow Consumption Reverse consumption | 12.1 m/s 25.1 m3/h 999999 m3 999999 m3 | Temperature Humidity Dewpoint | 23.6 C 12.4 %rh -32.1 Ctd |
| mA EX | <t d<="" td=""><td>Pulse co</td><td>unter</td></t> | Pulse co | unter |
| Vortex sensor flow | 25.1 m3/h | Vortex sensor consumption | n 9999 m3 |
| Graphic 23 Val | ue | ng 📜 MENU 🖡 | Page 🕇 🙆 |

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 S4M software.





Signal / Interface & Supply

| Data logger | |
|---------------------------------|---|
| Storage | Internal, 100 million values |
| Sampling rate | Optional >=1s, Max 59 mm: 59 ss |
| Input signals | |
| Digital input | 2 x SDI sensors 16 x RS-485 Modbus RTU Sensors 2 x 0 20 mA / 4 20 mA / 0 10V |
| Analog input | 2 x 0/4 20 mA; 2 x 0 10 V; 2 x pulse |
| Pulse input | 100 Hz maximum; 28 V, 10 Ma |
| Output signals | |
| Analog / Pulse output | 4 20 mA signal and pulse signal of sensors can be looped through the display by using the connection board |
| Alarm output | 2 relays, 230 VAC, 3 A, NC |
| Field bus Interface | |
| Protocol | Modbus/TCP (Ethernet), Modbus/ |
| | RTU (RS 485) |
| Electrical data | RTU (RS 485) |
| Electrical data Power supply | RTU (RS 485) 100 240 VAC, 20 VA (op- tion, KA66000A1663) 18 30 VDC, 20 W (option, KA66000A1664) |
| | 100 240 VAC, 20 VA (op- tion, KA66000A1663) 18 30 VDC, 20 W (option, |
| Power supply | 100 240 VAC, 20 VA (op- tion, KA66000A1663) 18 30 VDC, 20 W (option, KA66000A1664) |

General data Configuration

| PC Software | S4C-Display software |
|-----------------------|--|
| Display | |
| Integrated | Size: 5" high-resolution graphic display |
| | Resolution: 800 x 480 pixels touch screen |
| Material | |
| Housing | PC + ABS |
| Miscellaneous | |
| Electrical connection | Screw-Terminal connectors |
| Protection class | IP65 |
| Approvals | CE |
| Weight | 0.52 kg |
| Housing | Panel, wall mountable |
| Dimensions | See dimensional drawing |
| Cable entry diameter | 4.5 mm |
| Cable | Supply: AWG 12 AWG 24, 0.2 2.5 mm ² ; Signals: AWG 16 AWG 28, 0.14 1.5 mm ² |
| Weight | 0.52 kg |
| Operating conditions | |
| Ambient temperature | 0 +50°C |
| Ambient humidity | <90 % |
| Storage temperature | -20 +70°C |
| Transport temperature | -20 +60°C |

Ordering

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

S330 / S331 Display and Data Logger

| Order No. | Description |
|-----------------|---|
| KA66D5000333 | S330 Display, Panel Version, 2 x SDI & 16 x Modbus/RTU input, Ethernet, RS 485, USB |
| KA66D5000331 | S331 Display and Data Logger, Panel Version, 2 x SDI & 16 x Modbus/RTU input, Ethernet, RS 485, USB |
| Analog input | |
| KA66000A1672 | No analog input |
| KA66000A1662 | 2 analog inputs 0/4 20 mA, 0 10 V + 2 pulse inputs |
| Power supply (r | nust choose one option) |
| KA66000A1663 | Power supply input 100 240 VAC, 20 VA, with 2 Alarm relays |
| KA66000A1664 | Power supply input 18 30 VDC, 20 W, with 2 Alarm relays |
| Wall casing | |
| KA66000A1673 | No wall casing, Panel mounting |
| KA66000A1665 | Wall mountable casing with 4 cable glands |
| KA66000A1666 | Wall mountable casing with 7 cable glands |
| KA66000A1667 | Wall mountable casing with 3 cable glands + Ethernet |
| KA66000A1668 | Wall mountable casing with 6 cable glands + Ethernet |
| Hat rail | |
| KA66000A1674 | No DIN rail holder |
| KA66000A1669 | Hat rail holder (only in connection with wall mountable casing) |

Accessories

| Order No. | Description |
|----------------|--|
| Cables | |
| KA66C2190055 | M12 connector with RS-485 termination resistor, 120 Ω , for Modbus daisy chain termination |
| KA66A5543310 | M12 RS-485 (Modbus) splitter |
| KA66A5530130 | USB cable for S330 / S331 (1 cable included in S330 / S331) |
| KA66A5530104 | Sensor cable 5 m with M12 connector, open wires, AWG 24 (0.2 mm ²) |
| KA66A5530105 | Sensor cable 10 m with M12 connector, open wires, AWG 24 (0.2 mm ²) |
| KA66A5530106 | Power cable with mains plug, 1.8 m |
| KA66A5530120 | Ethernet cable 5 m, RJ45 plug at both ends |
| Converters and | gateways (Please contact our customer service for further converter/gateway options) |
| KA66A5540011 | RS-485 repeater |
| KA66A5540331 | RS-485 / USB converter |
| Software | |
| KA66M5992031 | S4M, data acquisition and analyzes software |
| KA66000A1102 | Add-on Energy Manager for S4M |
| Others | |
| KA66D5540031 | 8-channel current input module, 0 20 mA, Modbus/RTU |
| KA66A5540007 | Power supply wall mountable |
| KA66A5540009 | Power supply for hat rail |
| KA66A5543311 | Line filter for EMC protection |
| KA66A5543313 | Connection board for looping 4 20 mA and pulse signals to PLC, mountable in wall casing KA66000A1666 or KA66000A1668 |



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International Edition (EN) - 23-1. KOMPAUTO NORDIC