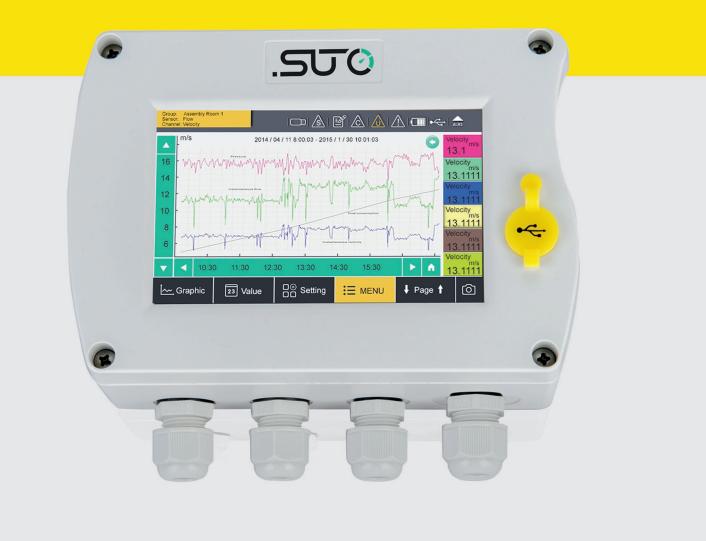


S330 / S331 Display and Data Logger





Your system values — All displayed and stored in one place



S330 / S331 FEATURES

IIoT Con S4M

T SUPPORT onnection to M software

CONNECTION Up to 16 sensors



5" large color LC

7 TIGHT PROTECTION IP65

 \prod

WEB SERVER Access from w wide



DATA LOGGER 100 million values

S330 / S331 OPERATION PRINCIPLE

The universal display and data logger can measure, display and record all relevant parameters (Flow, consumption, dew point, pressure, temperature, power consumption, compressor status etc.) in a compressed air system.

S330 / S331 BENEFITS

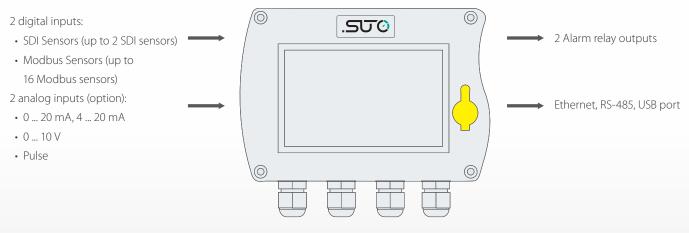
- High resolution 5" colour touch screen interface
- All SUTO sensors and compatible third party sensors are connectable
- 16 x Modbus inputs (58 standard or optional 108 Channels) 2 x SDI inputs (20 channels) 2 x Analog and pulse input (4 channels) Plus 10 virtual channels for calculations like kW/m³/min or Differential pressure
- 2 wall casings available: 4 cable glands or 7 cable glands
- USB interface for data transfer to data stick or PC
- RS-485 (Modbus/RTU) and Ethernet (Modbus TCP) interface to factory automation system
- 10 W sensor power supply (24 VDC)
- Data logger (S331 only): 100 million values
- Alarm monitoring with 2 relay outputs
- Integrated web server for remote monitoring
- Quick set up
- Various options for system extension
- Monitor compressor run time

The SUTO S330 / S331 is a powerful yet cost effective local display, sensor interface and data logging (S331 only) solution for virtually any application. Up to 16 sensors can be connected to a single device allowing local nodes to be setup throughout the factory. With it's easy to use, high resolution 5" touch screen, information from all the connected sensors can be accessed locally making readings easy to access for those on the ground.

Modbus/RTU or Modbus TCP output data can be transmitted into the site's ethernet network allowing information to be viewed in real time via an existing SCADA system or with the simple and easy to use SUTO S4M software. S330 / S331 also provide IoT settings to connect with SUTO S4M software IoT version. Alternately locally logged data can be downloaded onto a USB memory card or directly to a computer through the USB port.

The S330 / S331 can display virtually any parameter from the connected sensors and with its virtual channels can make calculations to help you measure and monitor efficiency or productivity, simplifying often complex tasks. Alarms can be set on each signal to your preselected parameters helping keep an eye on performance and indicating when there is a problem.

S330 / S331 SYSTEM OVERVIEW



SUTO sensors are equipped with SDI and / or Modbus interface

S330 / S331 AVAILABLE VARIATIONS



Panel installation

2 different size wall mountable casings

Hat rail option

S330 / S331 TOUCH SCREEN OPERATION



The S330 / S331 comes with a high resolution 5" colour touch screen interface making the operation as simple as possible.

Sensor list:			
Compressor Room 1 / Flow sensor 🔺 🗸	Compressor Room 2 / Dewpoint sensor		
Velocity12.1m/sFlow25.1m3/hConsumption999999m3Reverse consumption999999m3	Temperature23.6 CHumidity12.4 %rhDewpoint-32.1 Ctd		
mA EXt	Pulse counter		
Vortex sensor flow 25.1 m3/h	Vortex sensor consumption 9999 m3		
Graphic 23 Value 00 Se	tting 📜 MENU ↓ Page 🕇 (◯)		

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



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.

S330 / S331 TECHNICAL DATA

General Specification		
Casing size	Size: 120 x 173 x 67 mm	
Power supply	A: 100 240 VAC, 20 VA B: 18 30 VDC, 20 W	
Interface	USB RS-485 Ethernet	
Alarm output	2 relay, 230 VAC, 3 A, NC	
Sensor inputs	2 x SDI inputs or 1 x SDI and 1 x Modbus input (Modbus input for up to 16 sensors) 2 x analog (option)	
Data logger	100 million values (option)	
Accuracy	SDI, Modbus: see sensor specs Analog: 0 20 mA: 0.01 mA 0 10 V: 0.01 V Pulse: ±1 digit	
Display	size: 5" Resolution: 800 x 480 px	
Operating temperature	0 +50 °C	
Storage temperature	-20 +70 °C	
Protection	IP65	



Back view with connection terminals

SENSORS CONNECTABLE TO \$330 / \$331

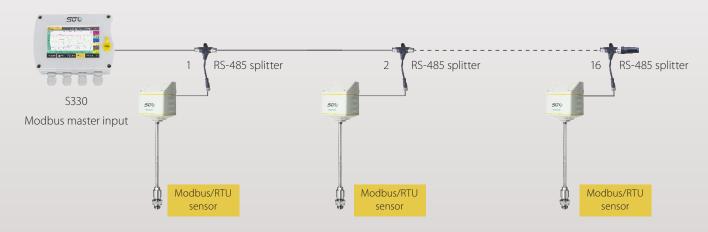
The S330 / S331 has 2 digital inputs, 2 analogue inputs and can connect up to 16 Modbus sensors.

Flow / Consumption sensors



Modbus-Master input for Modbus/RTU sensors

The S330 / S331 includes digital inputs for SUTO sensors or Modbus/RTU sensors. In order to connect the Modbus/RTU sensors properly on a RS-485 bus system it's recommended to daisy-chain the sensors to one of the inputs. For this purpose we offer a RS-485 splitter to simplify the connection. Through this method you can add up to 16 sensors to the master input. (In this case additional power supply is required.)



S330 / S331 ORDERING

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

Order No.	Option	Power supply	Casing		Description
D500 0333					S330, panel version, 2 digital inputs, Ethernet, RS-485, USB
D500 0331					S331, panel version, 2 digital inputs, Ethernet, RS-485, USB, data logger, S4A software
	А				None
A1662	В				2 analogue inputs 0 20 mA + 2 pulse inputs
A1663		А			Power supply 100 240 VAC, 20 VA, 2 relay outputs for alarm
A1664		В			Power supply 18 30 VDC, 20 W, 2 relay outputs for alarm
			A		None
A1665			В		Wall mountable casing with 4 cable glands
A1666			C		Wall mountable casing with 7 cable glands
A1667			D		Wall mountable casing with 3 cable glands + Ethernet
A1668			E		Wall mountable casing with 6 cable glands + Ethernet
				Α	None
A1669				В	Hat rail holder (only in connection with wall mountable casing)

Further accessories						
Order No.	Description					
Cables						
C219 0055	M12 connector with RS-485 termination resistor, 120 Ω , for Modbus daisy chain termination					
A554 3310	M12 RS-485 (Modbus) splitter					
A553 0130	USB cable for \$330 / \$331					
A553 0104	Sensor cable 5 m, with M12 connector, open wires, AWG24 (0.2 mm ²)					
A553 0105	Sensor cable 10 m, with M12 connector, open wires, AWG24 (0.2 mm ²)					
A553 0106	Power cable with mains plug, 1.8 m					
A553 0120	Ethernet cable 5 m, RJ45 plug at both ends					
A553 0123	RS-485 cable, 3 pole, AWG 24 (per meter)					
Converters and ga	ateways (Please contact our customer service for further converter/gateway options)					
A554 0011	RS-485 repeater					
A554 0331	RS-485 / USB converter					
Software						
M599 2031	S4M, data acquisition and analyzes software					
A1102	Add-on Energy Manager for S4M					
Others						
D554 0130	Power meter S110, hat rail mountable, Modbus/RTU					
D554 0031	8-channel current input module, 0 20 mA, Modbus/RTU					
A554 0007	Power supply wall mountable					
A554 0009	Power supply for hat rail					
A554 3311	Line filter for EMC protection					
A554 3313	Connection board for looping 4 20 mA and pulse signals to PLC, mountable in wall casing A1666 or A1668					

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