

S332

Display and Data Logger



Smart Monitoring. Secure Data. Complete Control.



Connectivity & Insights

Open connection to solutions



7" Touch-Screen

Live data and configuration



Web Server

Plug & Play
Access in local Network



Audit Trails & User Mgmt

In alignment with FDA 21 CFR



Modbus/RTU & TCP Master

Supporting 150 Channels



Strong Protection

Rugged casing with IP 65 rating



Data Logger

4.5 billion data points



Alarm Management

Channel-specific alarm thresholds



Why S332?

- **One device, complete visibility:** Connect up to 150 Modbus/RTU channels and monitor compressed air data from one central unit.
- **Flexible sensor integration:** Supports SUTO iTEC and third-party sensors via Modbus/RTU, Modbus/TCP, analog, and digital inputs.
- **Compliance built in:** User management, audit trail, and electronic signature features support FDA 21 CFR Part 11 requirements.
- **Access from anywhere:** Integrated web server connection enable remote monitoring, configuration, export, and cloud upload

One Device. Complete Visibility.

Managing compressed air data across multiple measurement points can become complex and inefficient.

The S332 Display & Data Logger centralizes data acquisition, visualization, storage, and analysis into one powerful platform. Designed specifically for compressed air and industrial gas systems, the S332 delivers real-time visibility across the entire network — from generation to point of use.

Inputs



Communication Inputs

- Modbus/RTU
- Modbus/TCP
- Wireless (Through WTU)



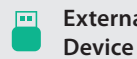
Analog & Digital Inputs

- 0/4 ... 20 mA
- 0 ... 10 V/0.5 ... 4.5 V
- Digital signal

Cloud Software



HMI/
SCADA



External
Device

Outputs



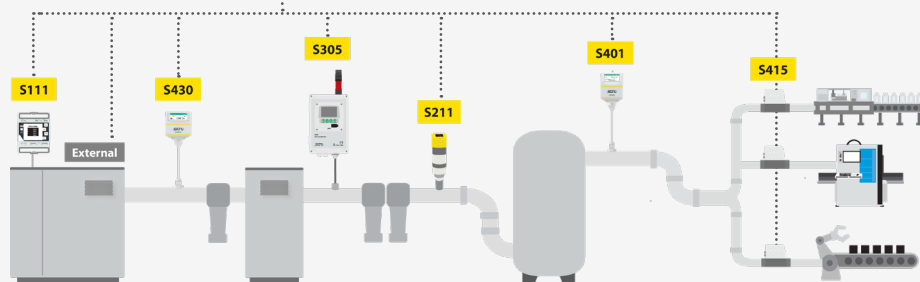
Data Outputs

- Modbus/RTU
- Modbus/TCP
- USB



Signal Outputs

- Alarm relays (2 built-in, up to 8 optional)
- Wireless (Through WTU)



Applications

The S332 is designed for industrial facilities that require centralized monitoring and reliable data logging across compressed air and gas systems.

Ideal for:

- Compressed air system operators
- Energy management projects
- Manufacturing & production facilities
- Pharmaceutical & regulated industries
- Factory-wide utility monitoring
- Multi-point sensor monitoring applications



Upgrade from S331

The S332 replaces the S331 with a larger 7" display, significantly expanded storage (10 GB vs. 3 GB), and full FDA 21 CFR Part 11 compliance features. Existing Modbus sensor networks connect without changes.

Feature	S332	S331
Screen Size	7"	5"
Screen type	Capacitive touchscreen	Resistive touchscreen
Resolution:	1280 x 800	800 x 480
Storage	10 GB	3 GB
Modbus input	Up to 150 channels	58 channels
Analog sensors	Up to 8	Up to 2
Digital sensors	Up to 8	Up to 2
Relay outputs	Up to 10	2
Power for sensor	50 W (AC version) Up to 150 W (DC Version)	10 W (Compact Version) 50 W (Flex Version)
Configuration	S332 Local Display & S4C Web	S4C Display
FDA 21 CFR Part 11	Yes (audit trail, e-signature, multi-user)	No
Web-Server Remote Access	Supported (remote viewing and operation)	Not supported

Connectivity & Remote Access

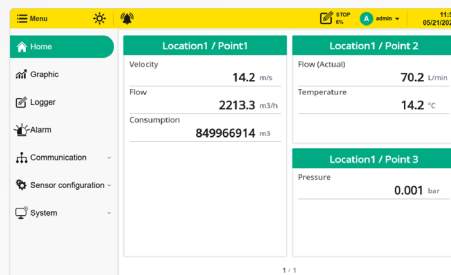
S4C Web

Remote real-time monitoring, online configuration, parameter setting, file export, and browser-based data analysis.



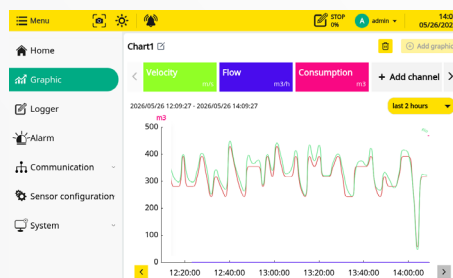
Seamless Connectivity and Management

Real-time monitoring and wireless data transmission via integrated web server for remote access and analysis.



Data Display & Customizable Channel Chart

Supports customizable measurement channels and real-time trend charts for clear and intuitive data visualization.



Data Logger - Export & Analysis

Flexible data logging with automatic recording, file export, and data analysis functions.

Menu

Logger

STOP

Manager

100%

06/24/2024

Home

Graphic

Logger

Alarm

Communication

Sensor Configuration

System

Active logger information

Recorded files

Export Logs

☒	Logger name	Start time	Stop time	Operate
☒	S332_log_8	2026-06-23 12:29:49	2026-06-23 12:29:59	
☒	S332_log_7	2026-06-18 16:30:30	2026-06-18 16:48:06	
☒	S332_log_6	2026-06-15 11:31:46	2026-06-15 11:32:16	
☒	S332_log_5	2026-06-11 16:55:50	2026-06-11 16:57:10	
☒	S332_log_4	2026-06-11 08:29:53	2026-06-11 08:41:59	
☒	S332_log_3	2026-06-10 15:55:35	2026-06-10 17:25:15	

System memory usage

Used 0.708/23.4GB

Alarm settings & Alarm History

Configurable alarm limits with real-time and historical alarm recording for improved process monitoring and risk control.

Sensor	Channel	Unit	Threshold	Hysteresis	Direction	Delay	Relay	Pending	Action
S401	Velocity	m/s	12	0	Up	0	0	[Icon]	[Icon]
S401	Flow	m³/h	50	0	Up	0	0	[Icon]	[Icon]
S401	Consumption	m³	10000	0	Up	0	0	[Icon]	[Icon]
S401	Flow direction		0	0	Up	0	0	[Icon]	[Icon]

Data Monitoring & Visualization

Sensor Integration

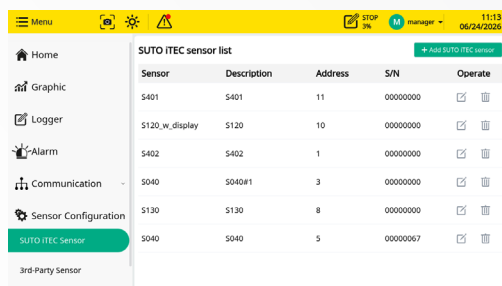
Sensor Connection Options

Modbus/RTU and /TCP Sensor Input

Connect up to 150 Modbus (RTU or TCP) measuring channels. Simple RS-485 installation using the SUTO iTEC daisy-chain splitter; additional power supplies may be needed for long cable runs.

Analog Sensor Input

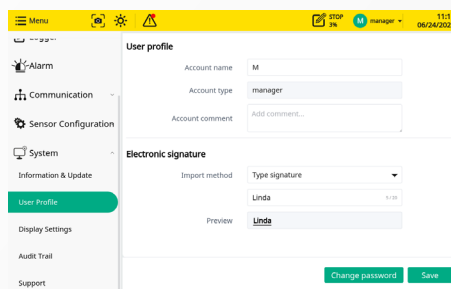
Optional analog modules support 0...20 mA, 4...20 mA, 0...10 V, 0.5...4.5 V, and pulse signals with up to 8 analog channels. Ideal for sensors without Modbus output.



Sensor	Description	Address	S/N	Operate
S401	S401	11	00000000	☒
S120_we_display	S120	10	00000000	☒
S402	S402	1	00000000	☒
S040	S040#1	3	00000000	☒
S130	S130	8	00000000	☒
S040	S040	5	00000067	☒

Electronic Signature

User-based electronic signatures protect files and support data integrity requirements.



User Profile

Account name: M

Account type: manager

Account comment: Add comment...

Electronic signature

Import method: Type signature

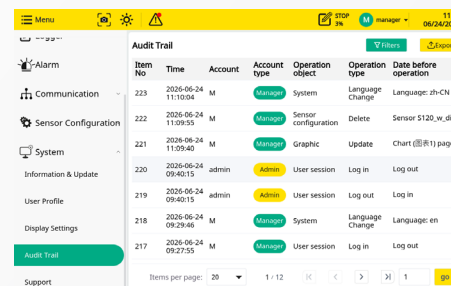
Signature: Linda

Preview: Linda

Buttons: Change password, Save

Audit Trail

Tamper-proof logging of all user operations with time and operator tracking for full traceability.



Item No	Time	Account	Account type	Operation object	Operation type	Date before operation
223	2026-06-24 11:10:04	M	Manager	System	Language Change	Language: zh-CN
222	2026-06-24 11:09:53	M	Manager	Sensor configuration	Delete	Sensor S120_we_dis...
221	2026-06-24 11:09:40	M	Manager	Graphic	Update	Chart (图R1) page...
220	2026-06-24 09:40:15	admin	Admin	User session	Log in	Log out
219	2026-06-24 09:40:15	admin	Admin	User session	Log out	Log in
218	2026-06-24 09:29:46	M	Manager	System	Language Change	Language: en
217	2026-06-24 09:27:55	M	Manager	User session	Log in	Log out

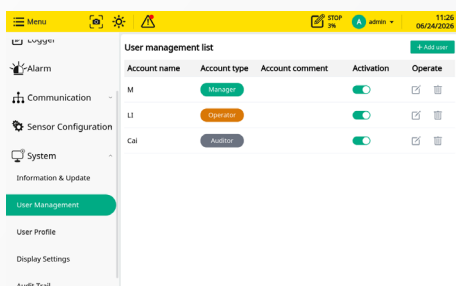
Empowering Efficiency and Compliance

Centralized data management with electronic signatures, audit trails, and user access control to support FDA 21 CFR Part 11 compliance.

Multi-User Management

Role-based access with Admin, Operator, Auditor, and Manager accounts for secure system operation.

Compliance & Security



Account name	Account type	Account comment	Activation	Operate
M	Manager		☒	☒
L1	Operator		☒	☒
Cal	Auditor		☒	☒

Technical Data

Signal / Interface & Supply

Input signals

Modbus signal input	- Modbus/RTU Master - Modbus/TCP Master (up to 150 measuring channels)
Analog input (Optional)	0 ... 20 mA/4 ... 20 mA, 0 ... 10 V/0.5 ... 4.5 V Up to 2 analog input modules, each module has 4 analog input channels.
Digital input (Optional)	Up to 2 digital input modules, each module has 4 digital input channels.

Output signals

Alarm output	Built-in 2 relays Up to 2 relay modules (optional), each module has 4 relays
Modbus signal output	1 x Modbus/RTU(Slave) 1 x Modbus/TCP

Data interface

Connection	- Modbus/TCP Master (Ethernet) - Modbus/TCP Slave (Ethernet) - Modbus/RTU Master (RS 485) - Modbus/RTU Slave (RS 485) - USB-C port
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Power supply

AC version	85 ... 305 VAC, 60W, 50/60Hz
DC version	18 ... 30 VDC, Max. 7 A

Sensor supply

AC version	24 V, max. 50 W
DC version	24 V, max. 150 W

General data

Display

Integrated	7" high-resolution graphic display, Resolution: 1280 x 800 pixels touch screen
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Data logger

Storage	Internal, 10 GB, 530 days typical (example: 50 channels @ 1s sampling)
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Material

Housing material	PC + ABS
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Miscellaneous

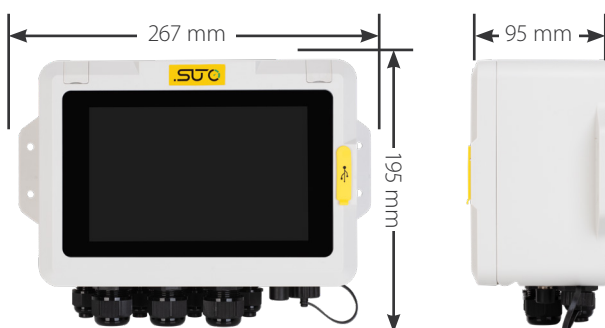
Protection class	IP65
Dimensions	Panel or wall mounting, see below
Cable entry	3 x M20 PG connector (each for 2 cables, Ø5 ... 6 mm) 4 x M12 PG connector (each for 1 cable, Ø5 ... 6 mm)
Installation	Panel or wall mounting
Approvals	CE, FCC
Weight	1 ... 1.8 kg (depending on the installed options and housing)

Environment Data

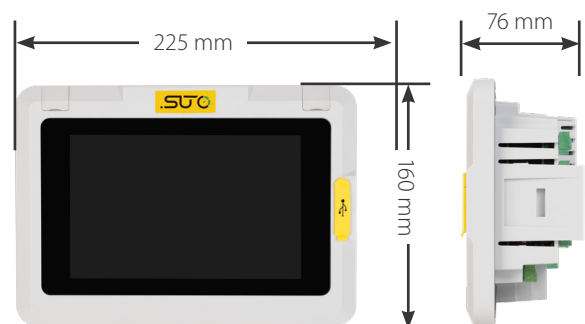
Operating temperature	0 ... +45 °C
Operating humidity	<90%, no condensation
Transportation temperature	-20 ... +60 °C
Storage temperature	-20 ... +70 °C

Dimension and Installation

Wall Mounting



Panel Mounting



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

S332 Display and Data Logger

Order No.	Description
D500 3321	S332 Display, Wall mountable casing, Modbus/RTU (Master & Slave), Modbus/TCP (Master & Slave), 2 Alarm Relays integrated, Power Supply Input: 85 ... 305 VAC
D500 3322	S332 Display, Wall mountable casing, Modbus/RTU (Master & Slave), Modbus/TCP (Master & Slave), 2 Alarm Relays integrated, Power Supply Input: 18 ... 30 VDC
D500 3323	S332 Display, Panel mount version, Modbus/RTU (Master & Slave), Modbus/TCP (Master & Slave), 2 Alarm Relays integrated, Power Supply Input: 85 ... 305 VAC
D500 3324	S332 Display, Panel mount version, Modbus/RTU (Master & Slave), Modbus/TCP (Master & Slave), 2 Alarm Relays integrated, Power Supply Input: 18 ... 30 VDC
Data Logger	
A3001	Data Logger, 10 GB Memory, 530 days typical (example: 50 channels @ 1s sampling)
A3002	No Data Logger
Option Slot 1	
A3003	Analog Input Module, 4 Channels, Current: 0 ... 20 mA / 4 ... 20 mA
A3004	Analog Input Module, 4 Channels, Voltage: 0 ... 10 V / 0.5 ... 4.5 V
A3005	Digital Input Module, 4 Channels
A3006	Alarm Relay Module, 4 Relays, Rating: 3A 230 VAC / 3A 30 VDC
A3007	No Option in Slot
Option Slot 2	
A3003	Analog Input Module, 4 Channels, Current: 0 ... 20 mA / 4 ... 20 mA
A3004	Analog Input Module, 4 Channels, Voltage: 0 ... 10 V / 0.5 ... 4.5 V
A3005	Digital Input Module, 4 Channels
A3006	Alarm Relay Module, 4 Relays, Rating: 3A 230 VAC / 3A 30 VDC
A3007	No Option in Slot

S332 Accessories

Order No.	Description
Optional wireless communication	
A554 0136	WTU-S, Wireless Transmission Unit for stationary installation, Slave (default) / Repeater with 0.5 m M12 connection cable, M12 connector for power supply, all installation accessories included
A554 0137	WTU-S, Wireless Transmission Unit for stationary installation, Master with 1 m open ends, M12 connector for power supply, all installation accessories included
Optional cables and connector	
A553 0104	Sensor cable 5 m with M12 connector, open ends, 5 pole, AWG 24 (0.2 mm ²)
A553 0105	Sensor cable 10 m with M12 connector, open ends, 5 pole, AWG 24 (0.2 mm ²)
A553 0165	Sensor cable, 5 pole, AWG 24 (0.2 mm ²), 50 m reel
A553 0166	Sensor cable, 5 pole, AWG 24 (0.2 mm ²), 100 m reel
A553 0167	RS-485 (modbus) cable, 4 pole twisted pairs with shield, AWG 24 (0.2 mm ²), 50 m reel
A553 0168	RS-485 (modbus) cable, 4 pole twisted pairs with shield, AWG 24 (0.2 mm ²), 100 m reel
A554 3310	M12-Splitter, for Modbus Daisy chain wiring, including 2 x M12 plug
C219 0055	M12 connector with RS-485 termination resistor (120 Ω), for Modbus daisy chain termination
A553 0161	M12 male to M8 female converter cable for M12-Splitter
A553 0106	AC Power cable with mains plug, 1.8 m
Converters and gateways*	
A554 0011	RS-485 repeater
A554 0331	RS-485 / USB converter
D554 0031	8-channel current input module, 0 ... 20 mA, Modbus/RTU

Ordering Example

Order Code	D500 3321.A3001.A3004.A3003
Example	S332 AC Version, with Data Logger, with 4 x 0... 10 V input, with 4 x 4 ... 20 mA input

* Please contact our customer service for further converter/gateway options



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