S335

IoT Gateway

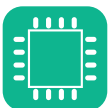**UNIVERSAL SENSOR COMPATIBILITY**
Modbus/RTU and Modbus/TCP

INTEGRATED WEB SERVER
Live data and configuration

REMOTE MONITORING
Cloud services via 4G modem

SIMPLIFIED CONFIGURATION
Export and import configuration files

FLEXIBLE CONNECTIVITY
Connect to factory systems via Modbus

POWERFUL SENSOR SUPPLY
Loopthrough power supply for sensors

SCALABLE AND VERSATILE
Supporting up to 80 Data channels

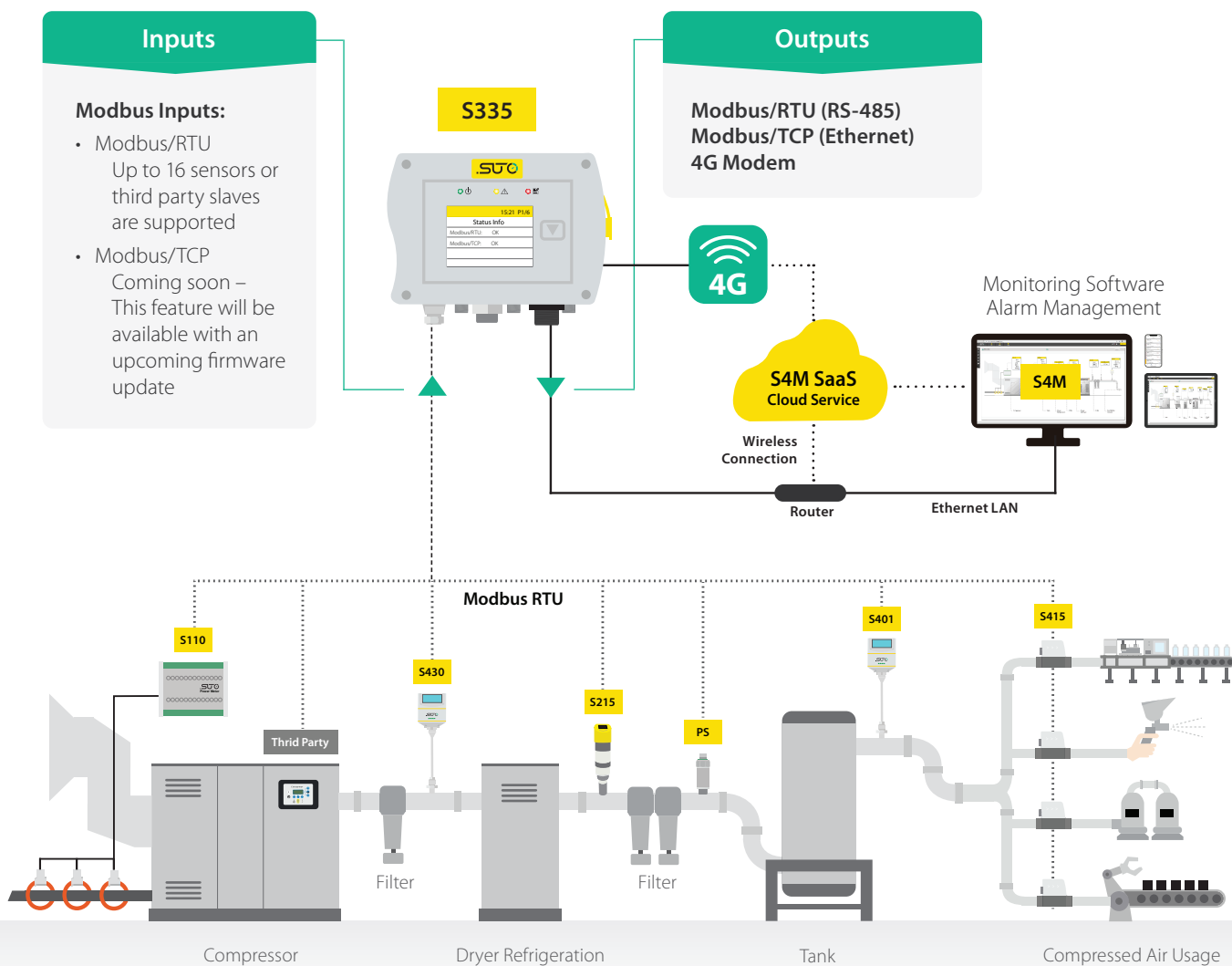**MOUNTING OPTIONS**
Wall and DIN rail mounting

Benefits

- ✅ Gateway Function: The S335 connects field devices like sensors to advanced monitoring software for easy data transfer and management

- ✅ Centralized Data Hub: Easily track all your compressed air system data in one place for complete, accurate monitoring

- ✅ Multi-Sensor Connectivity: Connect up to 16 sensors to a single device for a simpler, more efficient setup

- ✅ Seamless Integration: Works perfectly with your existing systems using Modbus/RTU and Modbus/TCP, ensuring hassle-free setup

- ✅ Remote Access: Monitor and adjust settings anytime, anywhere with the built-in web server

- ✅ No Software Installation: Simplified setup and monitoring with the easy-to-use web interface – no extra software needed

Plug and Play Data Logging

The SUTO S335 is the heart of your compressed air monitoring system, seamlessly collecting and distributing measurement data to various components. Designed to act as an interface between field hardware and software, the S335 provides effortless integration, ensuring that your monitoring system runs smoothly and efficiently.

Inputs

Modbus Inputs:

- Modbus/RTU
  Up to 16 sensors or third party slaves are supported

- Modbus/TCP
  Coming soon – This feature will be available with an upcoming firmware update

S335

Outputs

Modbus/RTU (RS-485)
Modbus/TCP (Ethernet)
4G Modem

4G

Monitoring Software
Alarm Management

S4M SaaS
Cloud Service

S4M

Wireless Connection

Router   **Ethernet LAN**

Modbus RTU

S110   S430   S215   PS   S401   S415

Thrid Party

Filter   Filter

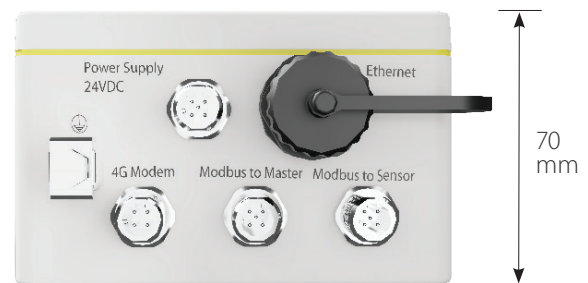Compressor   Dryer Refrigeration   Tank   Compressed Air Usage

Remote Connection
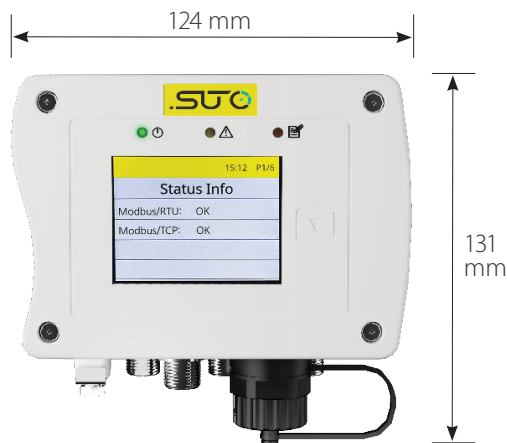
By connecting a 4G/LTE modem to the designated M12 port, the sensor data from the S335 can be monitored remotely through SUTO S4M-SaaS.

The SUTO S335 is your ideal solution for efficient, reliable and scalable compressed air monitoring. Whether you're managing a small system or a large industrial facility, the S335 provides the flexibility and control you need to optimise your operations.

Dimension

124 mm

131 mm

Status Info
Modbus/RTU: OK
Modbus/TCP: OK

Power Supply 24VDC

Ethernet

4G Modem   Modbus to Master   Modbus to Sensor

70 mm

Power Supply and Connectors

- 1 x M12 Connector for 65W sensor power supply, 1 x M12 Connector for Modbus/RTU Slave, 1 x M12 Connector for Modbus/RTU Master
- 1 x Ethernet Connector for Web-Server & Modbus/TCP communication

Installation Options

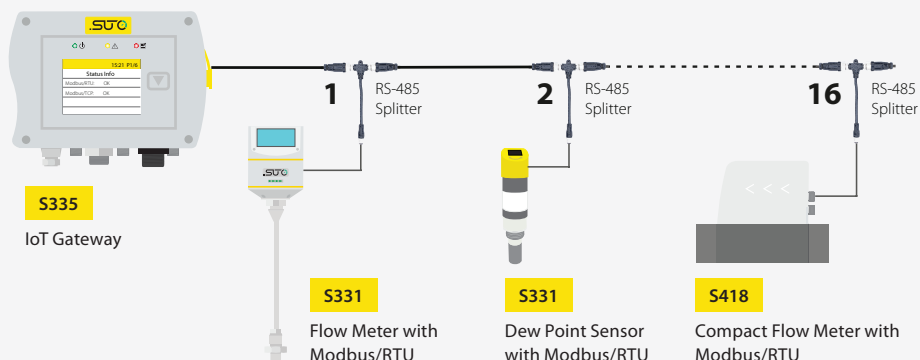The S335 comes in a compact design which can be wall mounted or 35 mm DIN hat rail mounted.

S335 IoT Gateway

Connecting All Compressed Air Devices

SUTO Modbus/RTU Sensor Input

1

The S335 supports input from 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. (Additional power supplies for field devices might be necessary)
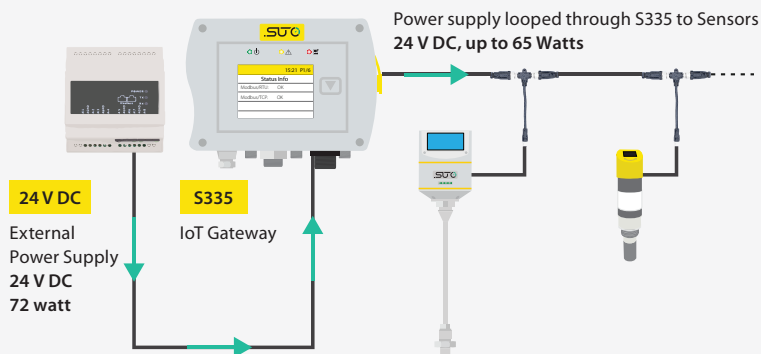
S335
IoT Gateway

1 RS-485 Splitter

2 RS-485 Splitter

16 RS-485 Splitter

S331
Flow Meter with Modbus/RTU

S331
Dew Point Sensor with Modbus/RTU

S418
Compact Flow Meter with Modbus/RTU

Power your Sensors directly with the S335 Gateway

2

The S335 Gateway offers seamless integration with external power sources, allowing you to power connected sensors directly without the need for additional power supplies for each unit. This streamlined approach significantly reduces installation complexity and increases the flexibility of your setup.

With support for up to 72 Watts of external power ,the S335 delivers a robust 65 Watts to connected sensors to ensure optimal performance.
Meanwhile, the gateway itself consumes minimal power - just 7 Watts - making it an energy-efficient choice for your system.
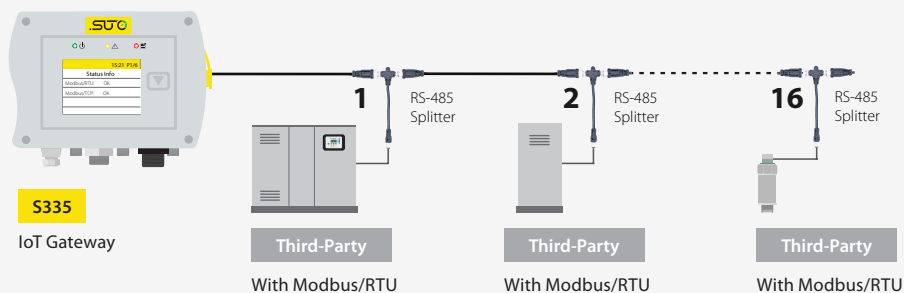
Simplify your installations and improve system performance with the versatile, energy-efficient S335 gateway.

Power supply looped through S335 to Sensors
24 V DC, up to 65 Watts

24 V DC
External Power Supply
24 V DC
72 watt

S335
IoT Gateway

Third-Party Sensor and Field Device Support

3

By relying on the industry standard protocol Modbus/RTU, the S335 does support third-party

sensors to be easily integrated into the monitoring system. Field devices can be easily set up using the web browser-based S4C-Web, allowing to add third-party sensor within seconds.

S335
IoT Gateway

1 RS-485 Splitter

2 RS-485 Splitter

16 RS-485 Splitter

Third-Party
With Modbus/RTU

Third-Party
With Modbus/RTU

Third-Party
With Modbus/RTU

Technical Data

General data

Data logger

Operating temperature	0 ... +50°C
Housing material	PC+ABS
Protection class	IP65
Dimensions	124 x 102 x 70 mm
Display	2.4" color (640 x 480) graphic display, 1 touch button
Weight	0.4 kg

General data

Electrical data

Power supply	24 VDC, 72 W*
Sensor supply	24 VDC, 65 W

Input signals

Digital input	Mobus/TCP 16 x RS-485 Modbus RTU Sensors

Output signals

Interface	Ethernet (Modbus/TCP), RS-485 (Modbus/RTU), USB-C port

*Power supply not included. The S335 must be supplied with 24 VDC. The 24 VDC can then be looped through to power connected sensors. Up to 65 watts of power to the connected sensor when using a 72 watts main power supply.

Ordering

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

S335 IoT Gateway

Order No.	Description
D500 0336	S335 IoT Gateway with display, 16x Modbus/RTU input, Ethernet, RS-485, USB-C, M12 connector for 4G modem, M12 connectors for Sensors. Supply voltage 24 VDC min.7 W / max. 72 W (Power supply not included)
Main unit Mounting	
A4602	No mounting
A4603	Wall mounting plate
A4604	35 mm DIN hat rail mounting plate

Accessories

Order No.	Description
Cables	
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 mm2), 50 m reel
A553 0166	Sensor cable, 5 pole, AWG 24 (0.2 mm2), 100 m reel
A553 0167	RS-485 (modbus) cable, 4 pole twisted pairs with shield, AWG 24 (0.2 mm2), 50 m reel
A553 0168	RS-485 (modbus) cable, 4 pole twisted pairs with shield, AWG 24 (0.2 mm2), 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
Converters and gateways*	
A554 0011	RS-485 repeater
A554 0331	RS-485 / USB converter
4G Modem for remote connection	
A1670	USB 4G dongle, excl. SIM card
A554 0131	Wall casing for USB 4G dongle, with 2m cable and M12 connector

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

www.suto-itec.com   **sales@suto-itec.com**