



## Product Overview 2026

Measurement Technology for  
Compressed Air, Gases and Liquids



Be smart. Measure it.

# Advanced Measurement Solutions

## Compressed Air and Gas Monitoring - get your system under control

The use of compressed air and technical gases in modern production processes has become indispensable. Compressed air is used to drive actuators, machines and to control other automated processes. Technical gases and air are used to conserve food or are even becoming part of the product, like in the beverage production.

This leads to two crucial aspects:

1

### Energy Consumption

Air compressors typically convert ~80 ... 90 % of the electrical energy into heat and only 10 ... 20 % into compressed air. This makes compressed air 5 to 10 times more expensive than electricity. Measuring and Monitoring compressors, the consumptions, pressure and flow rates becomes major part in a world with limited energy resources.

2

### Purity and Quality

Having air and gases becoming a part of your product and process means, that we need to have a control system in place, insuring that filtration systems are working as they should, 24 hours a day, 7 days a week. Only by regular measurements or by using monitoring solutions this can be achieved.

## Why monitor compressed air and gases?

- System Performance and Reliability
- Energy Efficiency and Cost Reduction
- Product Quality and Safety
- ISO Purity Requirements

### Flow Meters

#### Compressed Air & Gas



P. 6-8

### Leak Detection



P. 13

### Monitoring Software



P. 17



P. 14

### Flow Meters Liquids & Steam



Be smart.  
Measure it.

## Dew Point Sensors



P. 9-10

## Air Quality & Purity



P. 11-12

## Displays / Data Logger / IoT



P. 15-16

P. 18



## Energy Meter Other Sensors

We are a trusted global partner for reliable measurement and

monitoring solutions for compressed air and gas systems.

Our wide range of products play a vital role in system  
processes of leading companies around the world.

Since our foundation in 2005, we offer our customers  
outstanding service and solutions and continue to  
innovate dependable measurement technology.

## WHY SUTO

### 20 Years of Experience

Decades of hands-on experience ensure reliable, high-  
performance solutions tailored to industry needs.

### Powered by Innovation

We revolutionize compressed air measurement with  
smarter, faster, and more efficient technologies.

### Outstanding Service

Worldwide reach with dedicated local service,  
known for excellent after-sales support.

### Expertise in Every Detail

Deep product knowledge ensures seamless integration,  
maximum accuracy, and minimal downtime.

# Complete Monitoring of Your System

We provide a full range of monitoring solutions for every stage of your compressed air system:

- 1 Generation** – Flow monitoring of wet air after the compressor. Power meters help monitor compressor efficiency.
- 2 Treatment** – Dew point and air quality measurement ensure process safety.
- 3 Distribution** – Flow and consumption monitoring optimize dry air usage.
- 4 Point of Use** – Monitoring of flow, consumption, and air quality at the consumer level.

**Data Logging and Analysis:** All collected data is transmitted to a smart monitoring software via our data loggers, providing centralized data analysis and reporting.

**Mobile Devices:** For maintenance and troubleshooting, we offer portable measurement devices such as dew point meters and leak detectors, providing flexibility for on-site analysis.

To complete our monitoring solutions, we provide precise measurement technology for **compressed breathing air systems** and **liquid systems**, ensuring reliability across various applications.

## Data Logging



S330  
S331

## Monitoring and Analysis



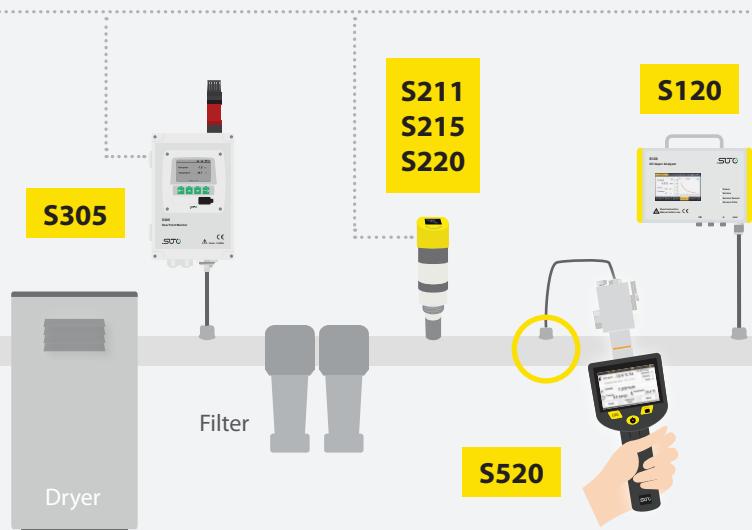
S4M  
SaaS



S111  
3rd-Party

S430

Air Compressor



S211  
S215  
S220

S120

S520

S305

Dryer

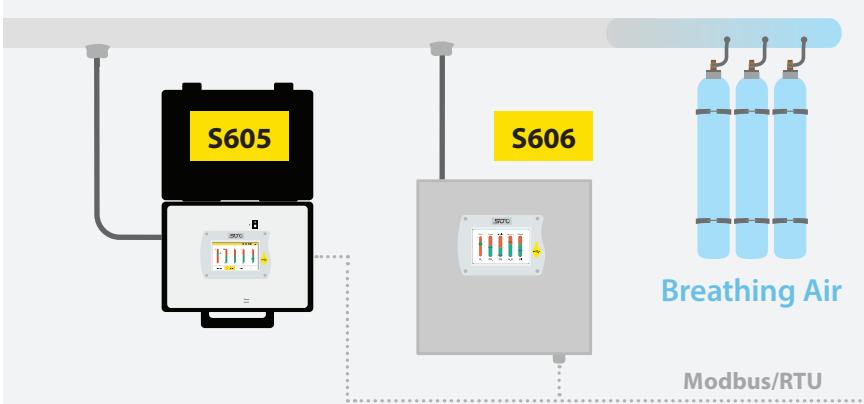
Filter

## 2 Treatment

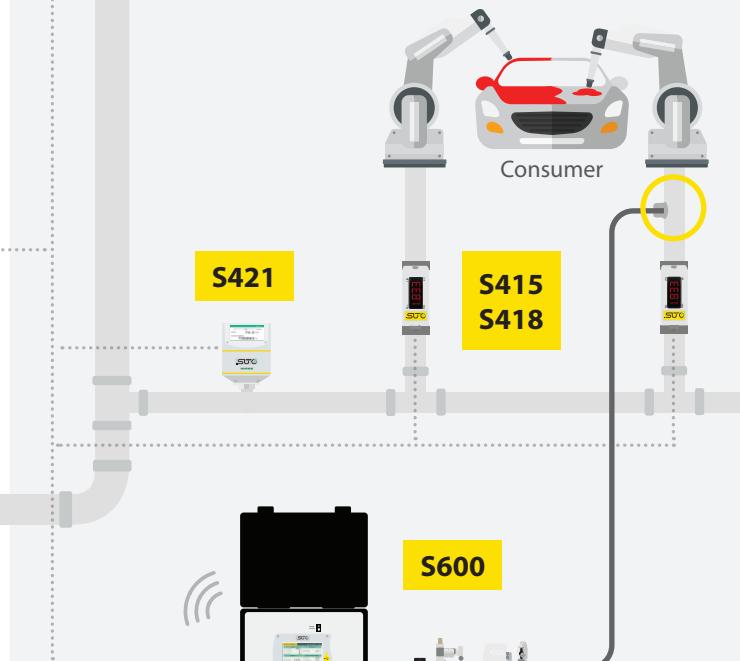
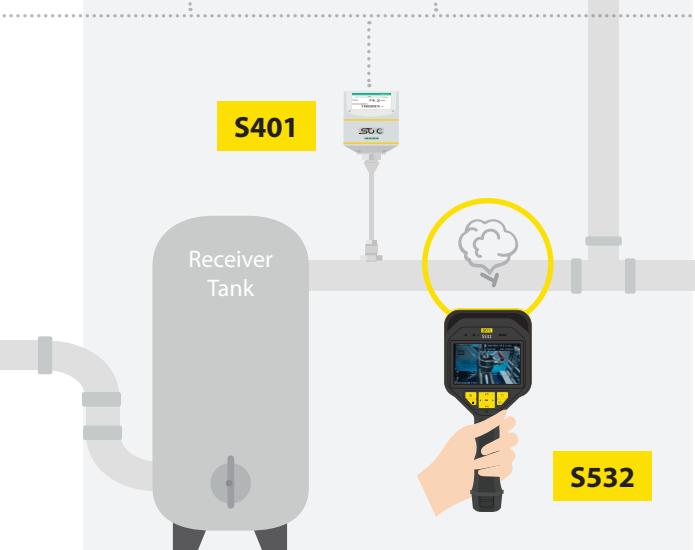
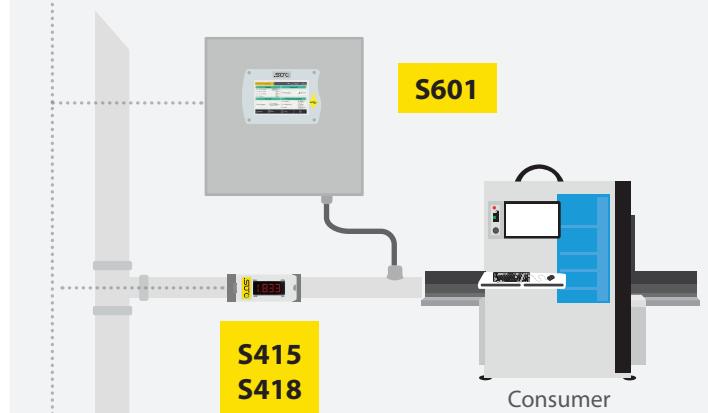
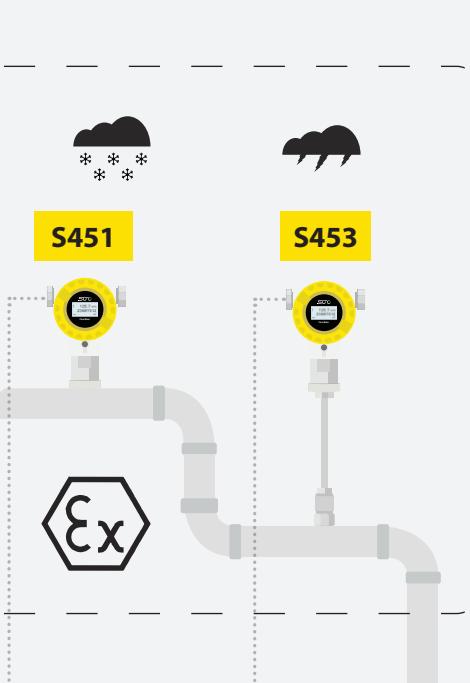
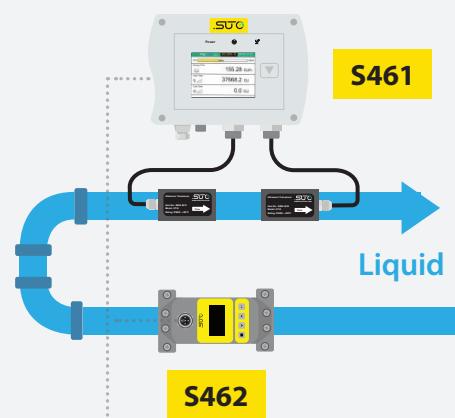
1

## 1 Generation

## Breathing Air



## Liquids



## 3 Distribution

## 4 Point-Of-Use



# Flow and Consumption Meters

## for Compressed Air and Gases



### Thermal Mass Flow Meter



S401

Insertion

#### Installation

Insertion type DN25 to DN1000, installation under pressure through 1/2" ball valve

S403  
S423

Coming Soon

Distribution

S401

Receiver Tank



See info sheet

Easy Installation through 1/2" ball valve under pressure

#### Signal Outputs

- Isolated 4 ... 20 mA & Pulse
- Modbus/RTU
- Modbus/TCP (PoE support)
- M-Bus

#### Application

- Non-intrusive measurement of compressed air and gas consumption in main and distribution lines.
- Used in various industries for energy management, process control, cost allocation, and quality assurance.

Mobile app for remote configuration

Reliable total flow measurements

Cost-efficient and affordable sensor solution

### Thermal Mass Flow Meter



S421

In-line

#### Installation

In-line type with measuring section DN15 to DN80 (Thread / Flange)

#### Application

- Efficient solution to measure compressed air and gas consumption and flow in main and distribution lines
- Applications in various industries, aiding in energy management, process control, cost allocation and quality assurance

Distribution

S421



See info sheet



### Pitot Tube Flow Meter for Wet Air



S430

Insertion

#### Installation

Insertion type for pipe sizes DN32 to DN1000, installation under pressure via 3/4" ball valve.

#### Application

- Flow, pressure and velocity monitoring at the compressor outlet
- High temperature flow applications
- Compressor efficiency testing with S551 Portable Data Logger and S110-P Power Meter

Generation

S430



Compressor

See info sheet



Wet air measurement at the compressor outlet

Fast response time for accurate results

Easy and efficient monitoring

Mobile app for remote configuration



# Flow and Consumption Meters

## for Compressed Air and Gases



### Compact Thermal Mass Flow Meter

**S415** Economic



#### Installation

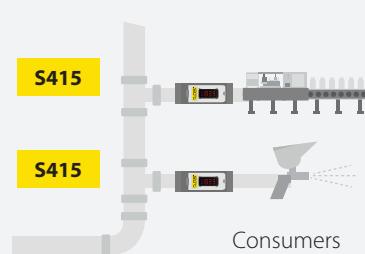
In-line type: G inner thread connection - DN8, DN15, DN20, DN25, DN32, DN40 or DN50 (ISO 228-1)

#### Signal Outputs

- Isolated 4 ... 20 mA & Pulse
- Modbus/RTU
- M-Bus

#### Application

- Low cost and broad monitoring of general processes
- Compressed air flow and consumption monitoring of individual machines and processes to improve efficiency and reliability



Point-of-Use

Point-of-use monitoring of compressed air and nitrogen

Cost-efficient and affordable sensor solution

Compact design for easy and flexible installation

Flow conditioner: no straight inlet required

See info sheet



### Compact Thermal Mass Flow Meter

**S418** High End



#### Installation

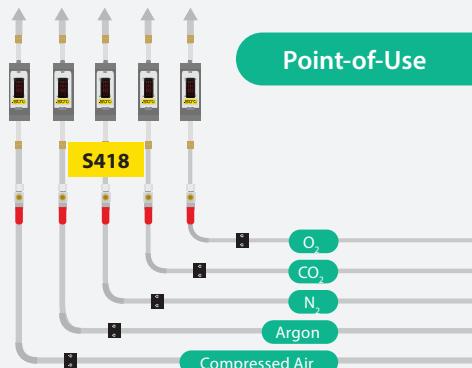
In-line type: G inner thread connection - DN8, DN15, DN20, DN25, DN32, DN40 or DN50 (ISO 228-1)

#### Signal Outputs

- Isolated 4 ... 20 mA & Pulse
- Modbus/RTU
- M-Bus

#### Application

- Accurate compressed air and gas flow monitoring, to discover weak points in the process flow, thus ensuring continuity and profitability.



Point-of-Use

Point-of-use monitoring of machines and consumers

Data logger for measurement data recording

Total mass flow: No bypass measurement needed

Compact design for easy and flexible installation

See info sheet



### Compact Thermal Mass Flow Meter

**S418-V** Vacuum



#### Installation

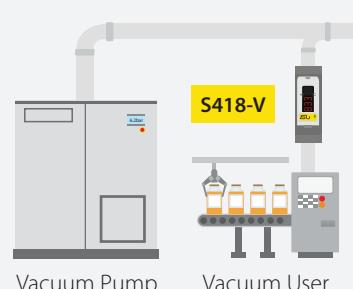
In-line type: G inner thread connection - DN8, DN15, DN20 or DN25 (ISO 228-1)

#### Signal Outputs

- Isolated 4 ... 20 mA & Pulse
- Modbus/RTU
- M-Bus

#### Application

- Performance monitoring of vacuum pumps
- Monitoring of critical values in vacuum applications which help operators to ensure the process reliability.



Point-of-Use

Point-of-use monitoring of vacuum pumps

Vacuum flow with absolute pressure sensor integrated

Accurate Results thanks to integrated flow conditioner

Compact design for easy and flexible installation

See info sheet





# Flow and Consumption Meters

## for Compressed Air and Gases



### Thermal Mass Flow Meter for Heavy Duty and Ex Applications

S451

Insertion



#### Installation

Insertion type DN25 to DN1000, installation under pressure through 3/4" ball valve

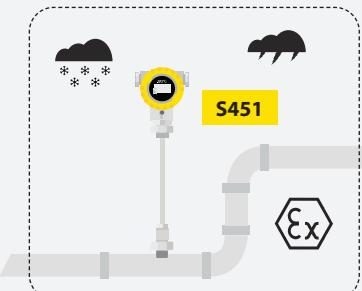
#### Signal Outputs

- 2 x 4...20 mA, pulse & Modbus/RTU
- 2 x 4...20 mA, pulse & Ethernet/APL (Modbus/TCP protocol)

#### Application

- Outdoor / all-weather flow applications
- Explosive environments
- Cost overview for gas consumption within the distribution network

Outdoor and Ex



See info sheet



Industrial design for harsh environments

Easy Cleaning: All wetted parts stainless steel

Explosion proof for use in Ex-area applications

Pressure and temperature independence

### Thermal Mass Flow Meter for Heavy Duty and Ex Applications

S453

In-line



#### Installation

Inline type flow meter with measuring sections from DN25 to DN80 (R-thread / Flange)

#### Signal Outputs

- 2 x 4...20 mA, pulse & Modbus/RTU
- 2 x 4...20 mA, pulse & Ethernet/APL (Modbus/TCP protocol)

#### Application

- Outdoor / all-weather flow applications
- Explosive environments
- Cost overview for gas consumption within the distribution network

Outdoor and Ex



See info sheet



### Thermal Mass Flow Direction Switch

S409

Insertion



#### Installation

Insertion type DN25 to DN1000, installation under pressure through 1/2" ball valve

#### Signal Outputs

- Relay for forward
- Relay for reverse

#### Application

- Flow direction switch for reliable indication of flow directions. Flow-Switch can be connected to bi-directional flow meters for direction detection.
- Two separate relays for direction indication

Multiple Locations

S409



Non-intrusive solution for easy installation

Supply via flow sensor for minimal effort

Reliable direction detection

Cost-efficient and affordable sensor

See info sheet





# Dew Point Meters

## for Compressed Air and Gases



### Dew Point Sensor

S215

-20 ... +50 °CTd



Optional Display

Compact design for easy and flexible installation

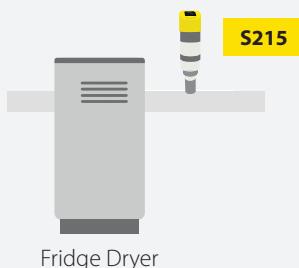
#### Installation

G1/2" Process connection for installation directly in process or via measuring chambers.

#### Signal Outputs

- 4 ... 20 mA 2-wire + SDI
- 4 ... 20 mA 3-wire + SDI
- 4 ... 20 mA 3-wire + Modbus/RTU

### Treatment



See info sheet



### Dew Point Sensor

S211

-60 ... +20 °CTd



Optional Display

Compact design for installation anywhere

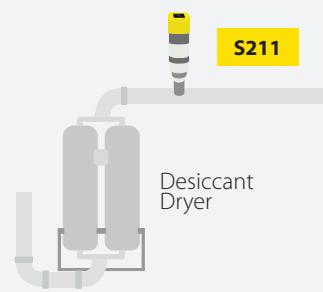
#### Installation

G1/2" Process connection for installation directly in process or via measuring chambers.

#### Signal Outputs

- 4 ... 20 mA 2-wire + SDI
- 4 ... 20 mA 3-wire + SDI
- 4 ... 20 mA 3-wire + Modbus/RTU

### Treatment



See info sheet



### Dew Point Sensor

S220

-100 ... +20 °CTd



Optional Display

Dual sensor solution (QCM + polymer) for high accuracy

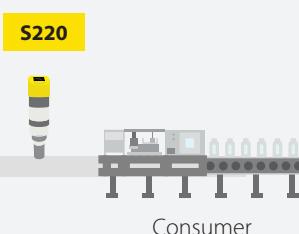
#### Installation

G1/2" Process connection for installation directly in process or via measuring chambers.

#### Signal Outputs

- 4 ... 20 mA 2-wire + SDI
- 4 ... 20 mA 3-wire + SDI
- 4 ... 20 mA 3-wire + Modbus/RTU

### Point-of-use



See info sheet



#### Measured Gases

Air / CO<sub>2</sub> / N<sub>2</sub> / O<sub>2</sub> / Argon

#### Operating pressure

0 ... 1.6 MPa

#### Application

Dew point measurements in high tech requirements and conditions



# Dew Point Meters

## for Compressed Air and Gases



### Dew Point Transmitter for Ex Applications

**S230** -100 ... +20 °CTd

**S231** -50 ... +20 °CTd



#### Installation

G1/2" Process connection for installation directly in process or via measuring chambers

#### Signal Outputs

- 4 ... 20 mA (isolated)
- Modbus/RTU

#### Measured Gases

Air / CO<sub>2</sub> / N<sub>2</sub> / O<sub>2</sub> / Argon

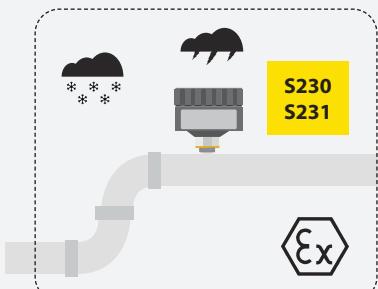
#### Operating pressure

- 0.1 ... 1.6 MPa (S230)
- 0.1 ... 35 MPa (S231)

#### Application

- Dew point measurement in explosive environments
- Outdoor / All-weather dew point measurement applications

#### Outdoor and Ex



See info sheet



Explosion proof for use in Ex-area applications

Low dew point measures down to -100 °CTd

Industrial design for rough environment

Dual sensor system for full range precision

### Dew Point Monitor

**S305** -60 ... +20 °CTd

-20 ... +50 °CTd



#### Installation

Stationary Installation  
easy process connection via 6 mm quick connect

#### Signal Outputs

4 ... 20 mA 3-wire

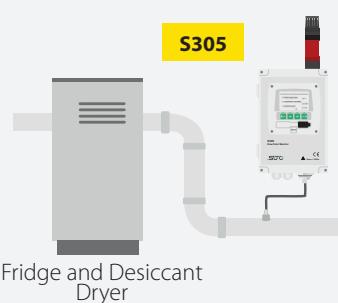
#### Measured Gases

Air / CO<sub>2</sub> / N<sub>2</sub> / O<sub>2</sub> / Argon

#### Operating pressure

0.3 ... 1.5 MPa

#### Dryer Monitoring



See info sheet



Plug & Play solution for simple and fast connection

Alarm indication with internal relays or alarm units

-60 ... +50 °CTd Range depending on model

Fast response time for efficient monitoring

### Portable Dew Point Meter

**S520** -100 ... +20 °CTd

-60 ... +50 °CTd



#### Installation

Point-of-use spot checking with easy process connection via 6 mm quick connect

#### Operating pressure

-0.1 ... 1.5 MPa(g) (at least 0.3 MPa is needed for the measuring chamber supplied with the instrument)

#### Measured Gases

Air / CO<sub>2</sub> / N<sub>2</sub> / O<sub>2</sub> / Argon

#### Signal Outputs

- Internal data logger
- On site print outs
- USB interface for data transfer

#### Mobile Measurements



See info sheet



Smart device with dew point prediction

Flexible dew point meter for on-site live data

Low dew point, down to -100 °CTd

Dew point audits according to ISO 8573-1



# Air Quality Instruments

## for Compressed Air and Gases



### Oil Vapor Monitor

S120

Display &amp; Data Logger



#### Installation

Easy process connection via 6 mm quick connect

#### Measured Gases

Compressed Air, Nitrogen N<sub>2</sub>, Carbon dioxide CO<sub>2</sub> (software setting)

### Point-of-use and others

S120



Consumer

See info sheet



Plug & Play oil vapor monitoring solution

Latest PID sensor technology for fast response time

Data logger to store values

Dew Point Sensor Option: -100 ... +20 °C Td

### Laser Particle Counter

S130

ECO (0.3 &lt; d ≤ 5.0 µm)

S132

PRO (0.1 &lt; d ≤ 5.0 µm)



#### Installation

Easy process connection via 6 mm quick connect

#### Measured Gases

Compressed Air, Nitrogen N<sub>2</sub>, Carbon dioxide CO<sub>2</sub> (software setting)

### Distribution and others

S130 / S132



See info sheet



Particle measurement according ISO 8573

Plug & Play solution for easy installation

Pro Version S132 Smallest channel 0.1 < d ≤ 0.5 µm

Eco Version S130 Smallest channel 0.3 < d ≤ 0.5 µm

### Portable Compressed Air Purity Analyzer

S600

5 in 1 Plug &amp; Play



#### Installation

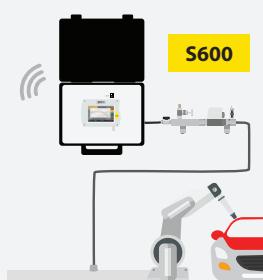
Easy process connection via 6 mm quick connect

#### Measured Gases

Compressed Air, Nitrogen N<sub>2</sub>, Carbon dioxide CO<sub>2</sub> (software setting)

### Mobile Measurements

S600



See info sheet



All in one solution: dew point, particle and oil vapor

Software guided measurement for high precision

Ultra-portable and compact design

PDF Report generator for ISO 8573-1 audits



# Air Quality Instruments

## for Compressed Air and Gases



### Stationary Compressed Air Purity Monitor

S601

5 in 1 Plug &amp; Play



#### Installation

Robust wall mountable cabinet with 6 mm hose connection

#### Signal Outputs

- Modbus/RTU (RS485)
- Modbus/TCP (Ethernet)
- USB

#### Pressure Range

0.3 ... 1.5 MPa

#### Measured Gases

Air / CO<sub>2</sub> / N<sub>2</sub> / O<sub>2</sub> / Argon

#### Application

- Permanent measurement and monitoring of compressed air quality in high tech applications with strict purity requirements, such as medical air, pharmaceuticals, food and beverage, etc.
- Ensuring compressed air quality standards as stated in ISO 8573-1.

Treatment

S601



See info sheet



All-in-one solution to measure ISO 8573-1 parameters

24/7 compressed air quality and purity monitoring

Integrated data Logger for online monitoring

Plug & Play operation, no configuration

### Portable Breathing Air Analyzer

S605

6 in 1 Plug &amp; Play



#### Installation

Easy-to-carry case with easy process connection via 6 mm quick connect

#### Signal Outputs

- Modbus/RTU (RS485)
- Modbus/TCP (Ethernet)
- USB
- 4G/LTE Modem (optional)

#### Measured Gases

Breathing air gases

#### Inlet Pressure

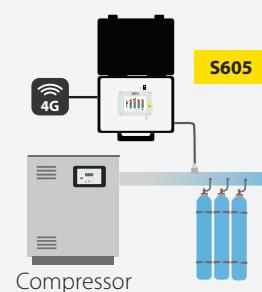
3 ... 15 barg, External pressure reducer allow up to 350 bar process pressure

#### Application

- Regular checks of breathing air systems in various sectors as fire fighting, diving, spray painting, chemical industry, offshore and high tech applications.
- Meeting requirements of international standards such as EN 12021 or CFR 1910.134(d).

Point-of-use

S605



See info sheet



### Stationary Breathing Air Monitor

S606

6 in 1 Plug &amp; Play



#### Installation

Wall mountable cabinet with 6 mm hose connection

#### Signal Outputs

- Modbus/RTU (RS485)
- Modbus/TCP (Ethernet)
- USB

#### Measured Gases

Breathing air gases

#### Inlet Pressure

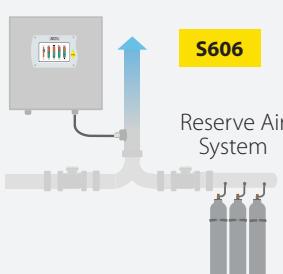
3 ... 15 barg, External pressure reducer allow up to 350 bar process pressure

#### Application

- Permanent monitoring of breathing air systems and filling stations for crucial industries and sectors like fire fighting, diving, spray painting, chemical industry, offshore and high tech applications.
- Meeting requirements of international standards such as EN 12021 or CFR 1910.134(d).

Generation

S606



See info sheet



All in One: O<sub>2</sub>, CO<sub>2</sub>, CO, H<sub>2</sub>O, Oil, Pressure

Permanent monitoring with alarm information

Single gas inlet for a convenient setup

Robust metal cabinet for rough environments



# Leak Detection

## for Compressed Air and Gases



### Ultrasonic Leak Detector

S530

Portable



Easy to use solution to find leaks in minutes

Laser pointer for quick spot leak detection

Compact design for flexible usage

Noise isolated headset for inaudible signals

See info sheet



#### Application

Leak detection in compressed air or gas systems such as refrigerators

- Ultrasonic
- With focus tube and focus tip
- Integrated laser pointer

#### Benefits

- Easy to use handheld device for simple leak surveys.
- Identifies leaks in compressed air systems which helps to save energy and reduce compressed air costs

### Smart Ultrasonic Leak Detector

S531

Portable



#### Features

The S531 helps users quickly locate and record leaks in compressed air, gas and pneumatic systems.

- Ultrasonic Technology
- With focus tube and focus tip
- Integrated laser pointer
- Trumpet, to focus the sound waves

Leak detection even from distance

Big memory for leak records, photos and voice recording

Integrated camera for leak photos

Data analysis and loss calculation

See info sheet



Free LMS License

#### Application

Easy-to-use handheld device identifies leaks in compressed air and gas systems, helping to save energy and reduce compressed air costs

### Leak Management Software

LMS

Local Installation



#### Installation

Local installation for easy setup and local data storage

#### Application

The Leak Management Software (LMS) enables companies to properly manage their leakage detection and repair activities.

### Acoustic Leak Camera

S532

Portable



#### Features

- 64 low-noise MEMS microphones
- 4.3" LCD touch screen with visual overlay
- Adjustable frequency range from 0 kHz to 96 kHz
- 64 GB SD card for 20,000 images and 60 hours of video
- Integrates with SUTO Leak Management Software (LMS)

Detects leaks up to 150 meters

Real-time leak visualization

Built-in camera for leak photos

Data analysis and loss calculation

See info sheet



Free LMS License

#### Application

- **Compressed Air Systems:** Detects and manages leaks.
- **High Voltage Systems:** Identifies partial discharges.
- **Industrial Maintenance:** Streamlines detection and recording.

The LMS works seamlessly with the S531 and S532 leak detectors. Detect leaks in the field with the S531/S532 and later import them into the LMS software for quantitative leakage data and powerful reporting.



See info sheet





# Flow and Consumption Meters for Liquids and Steam



## Ultrasonic Flow Meter for Liquids

S461

Clamp-On



### Installation

Clamp-On Installation for pipe sizes of DN40 ... DN1200, Versatile installation options for the display unit

### Signal Outputs

- Isolated 4 ... 20 mA (Analog option)
- Switch output, normally open, max. 40 VDC, 0,5 A (Pulse option)
- Modbus/RTU(Standard)
- Modbus/TCP and PoE (Option)

Non-Invasive through clamp-on sensors

Smartphone app for easy configuration

Energy Meter Monitors heat exchangers

### Application

Actual flow and total consumption monitoring in:

- Cooling / Heating / Process Water
- Purified Water Measurement
- Fuel, Oils, Petroleum Products
- Water Treatment
- Food / Beverage
- Sanitary
- Hydraulic System Test
- Pharmaceutical Industry

### Multiple Locations



See info sheet



## Compact Ultrasonic Flow Meter for Liquids

S462

Clamp-On



### Installation

- Clamp-On for pipe sizes: DN10, DN15, DN20, DN25, DN32 and DN40
- Can be installed on stainless steel pipe, carbon steel pipe, copper pipe or plastic pipe.

### Signal Outputs

- Isolated 4 ... 20 mA (Analog)
- Modbus/RTU

Clamp On: No contact to medium

Advanced Transit Time Correlation Technology

Cost-efficient and affordable sensor solution

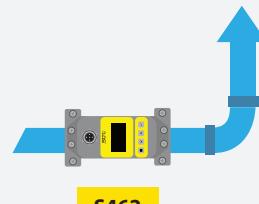
Stationary: Connectable to S330/S331

### Application

Clean fluid measurements in:

- Cooling / Heating / Process Water
- Purified Water Measurement
- Fuel, Oils, Petroleum Products
- Water Treatment
- Food / Beverage
- Sanitary
- Hydraulic System Test
- Pharmaceutical Industry

### Multiple Locations



See info sheet



## Vortex Flow Meter for Steam

S435

In-Line



### Installation

Intermediate flange installation for pipe sizes from DN40 ... DN300

### Signal Outputs

- 4 ... 20 mA
- Pulse
- Modbus/RTU

Effective and inexpensive measurements

Local display for easy configuration and live values

Vortex flow measurement for accurate results

Temperature sensor with automatic density adjustment

### Application

- Measures the saturated steam flow and consumption to ensure the process quality.
- The integrated consumption counter allows to calculate steam usage for each consumer in the system.



See info sheet





# Displays / Data Logger and IIoT for Data Logging and Visualization



## Display for Sensors

**S320** Local installation



User-friendly design for easy usage

USB Interface Configuration with S4C software

Alarm function with optional alarm settings

Signal digital and analog inputs

### Data Visualization



See info sheet



## Display and Data Logger

**S330** Display

**S331** Data Logger



### Inputs

#### 2 digital inputs:

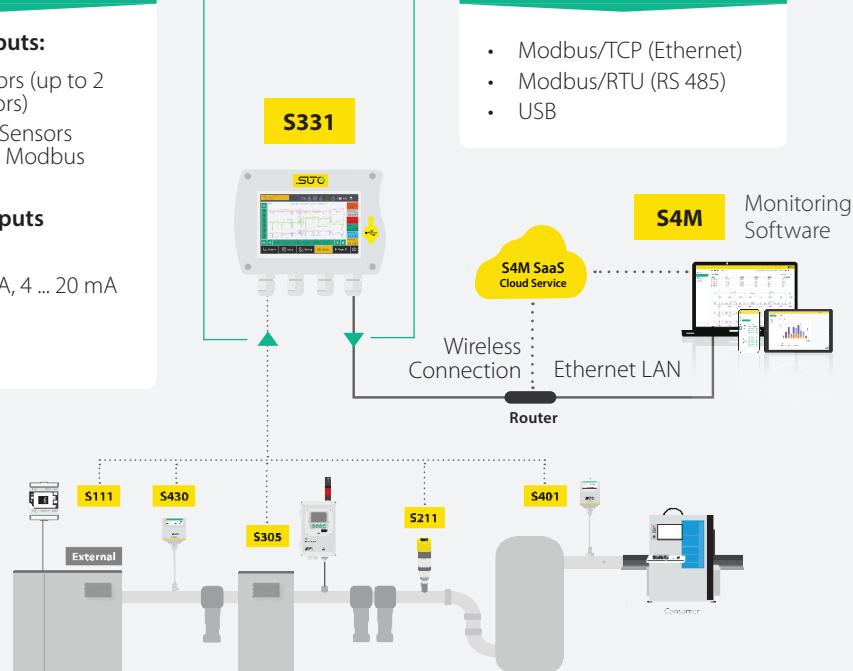
- SDI Sensors (up to 2 SDI sensors)
- Modbus Sensors (up to 16 Modbus sensors)

#### 2 analog inputs (option):

- 0 ... 20 mA, 4 ... 20 mA
- 0 ... 10 V
- Pulse

### Outputs

- Modbus/TCP (Ethernet)
- Modbus/RTU (RS 485)
- USB



### Installation

- Panel mounting (standard)
- Wall mounting

### Application

Central unit of a compressed air monitoring system displaying and recording all relevant parameters in a compressed air system (Flow, consumption, dew point, pressure, temperature, power consumption, compressor status etc.).

IIoT Support: Connection to S4M software

Versatile connection with 16 sensors inputs

Large 5" color LCD touch screen

Data Logger with 100 million values

See info sheet





# Displays / Data Logger and IIoT for Data Logging and Visualization



## IoT Gateway

**S335** Gateway



### 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

### Outputs

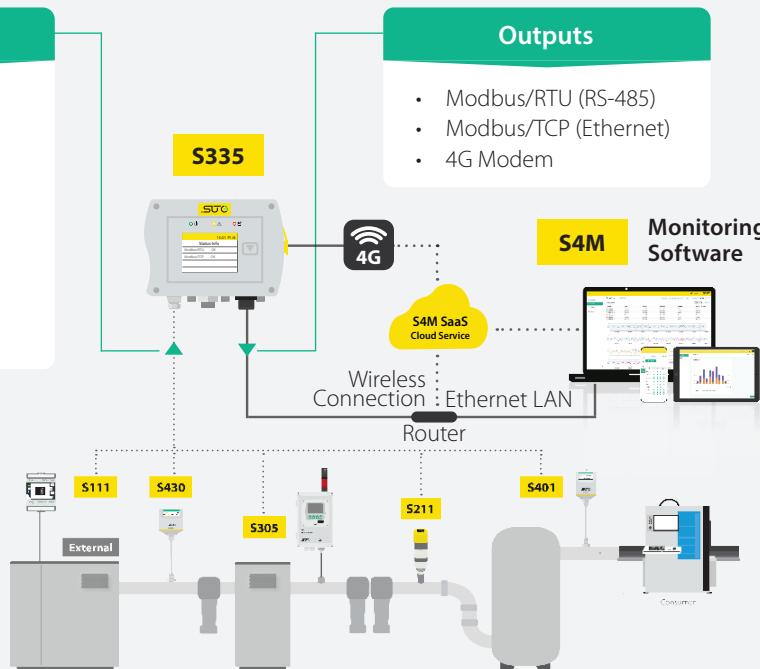
- Modbus/RTU (RS-485)
- Modbus/TCP (Ethernet)
- 4G Modem

#### Installation

- 35 mm DIN rail mounted
- Wall mounting

#### Application

Centralized data hub with gateway function for seamless integration and operation.



Universal sensor compatibility

Integrated web server S4C-Web

Simplified configuration

Supports up to 16 Modbus/RTU sensors

See info sheet



## Portable Display and Data Logger

**S551** Portable



### Inputs

Up to 20 sensors inputs:

- 2 x SDI
- 2 x analog
- 16 x Modbus

### Outputs

- Modbus/RTU
- Modbus/TCP
- 4G/LTE (optional)

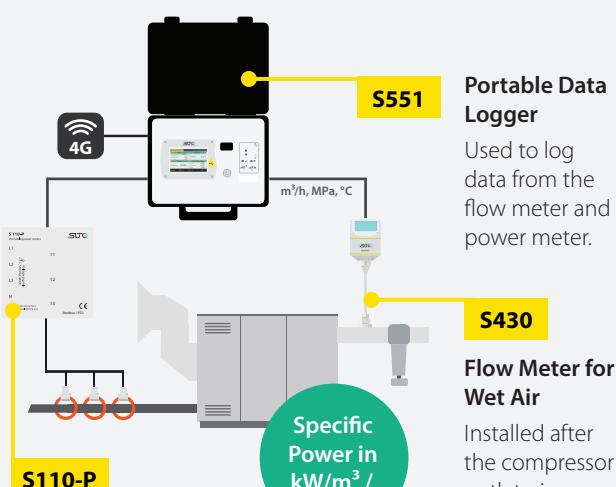
### Multiple Locations

#### Portable solution

Carrying case for a flexible and efficient usage at the point-of-use.

#### Application

- The ideal data logger for energy analysis (ISO 50001) and air audits (ISO 11011).
- Compressor efficiency testing (see illustration).



**S551** Portable Data Logger

Used to log data from the flow meter and power meter.

**S430**

Flow Meter for Wet Air

Installed after the compressor outlet pipe to measure compressed air flow.

Specific Power in  $\text{kW}/\text{m}^3/\text{min}$

Auto detection of SDI or Modbus SUTO sensors

Versatile connection with 20 sensors inputs

4G/LTE Modem for remote monitoring and logging (optional)

Large 5" color LCD touch screen

See info sheet





# Application Software and Smartphone Apps



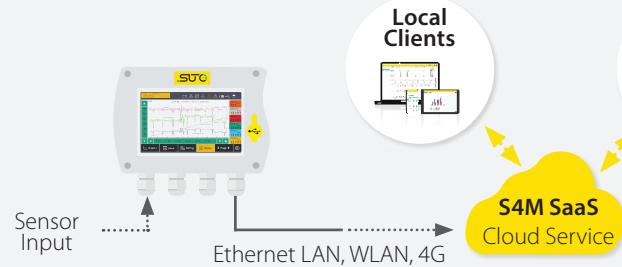
## Smart Compressed Air System Monitoring Software

S4M SaaS Cloud



### Benefits

- All-in-one monitoring solution for compressed air systems.
- The powerful software features helps users to get their compressed air system under control



Process Value Visualization

Extensive Data Analysis

Customer and Location Management

Alarms & Notifications

Powerful Report Module

See info sheet



## Data Analysis Software

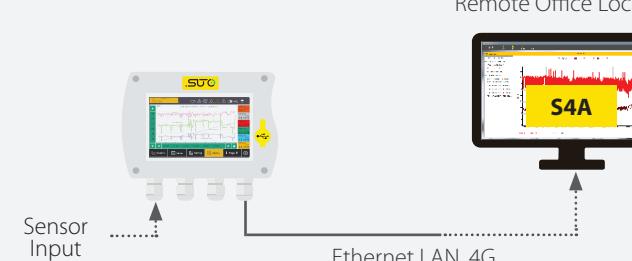
Data Visualization and Analysis

S4A Local



### Download

- The S4A Software is offered for free and the latest version can be downloaded from the SUTO iTEC homepage, no registration or subscription needed: [www.suto-itec.com](http://www.suto-itec.com)



Powerful graphic analysis

Analysis on Exported Files (.XLSX and .CSV)

Remote connection and readout of SUTO data loggers

Online reading via USB, Ethernet or WLAN connection

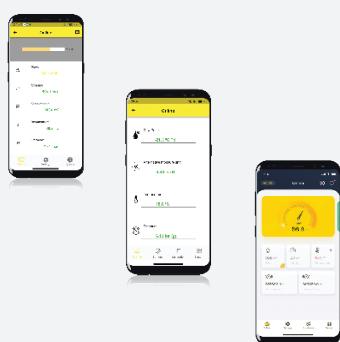
See info sheet



## Free Mobile Apps

Data Visualization and Configuration

S4C-FS Gas Flow  
S4C-DP Dew Point  
S4C-US Liquid Flow



### Applications

- SUTO iTEC Smartphone Apps are free to use.
- Wireless real-time data readings with S4C-FS App.
- User-friendly design and intuitive workflows.
- Operate entirely from your smartphone.
- Online configuration, settings, and user calibrations for SUTO iTEC devices.

### Signal Outputs

- Wireless connection from smartphone to SUTO Sensors
- No PC needed

Free smartphone app for remote configuration

User-friendly design for easy usage

Online reading of live measurement data

Wireless connection to devices in hard-to-reach places

See info sheet





## Three-Phase Multi-Functional Smart Meter

Generation

S111

Stationary



### Installation

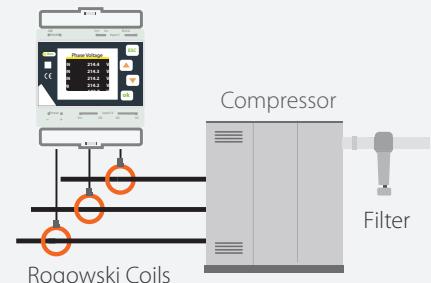
- DIN rail installation for power cabinets
- Rogowski coils with snap-on connection.

### Signal Outputs

- Modbus/RTU

### Application

The main application is to measure the power consumption and the accumulated energy consumption of electrical 3-phase consumers, like compressors, driers and oxygen/nitrogen generators.



Multi-functional: 3-phase, 1-phase

Modbus / RTU Interface can connect to any Modbus-Master

User-friendly design and setup

Identifying compressor efficiency

See info sheet



## Additional Sensors

S010/S011

Pressure



S020

Temperature



S030

Electrical Current



S040

Atmospheric Sensor



### Signal Outputs

- S010: 4 ... 20 mA
- S011: Modbus/RTU
- S020: 4 ... 20 mA (available in 2 sizes)
- S030: 4 ... 20 mA
- S040: Modbus/RTU

See info sheet



### Installation

Easy installation in compressed air systems (for more information visit [www.suto-itec.com](http://www.suto-itec.com))

See info sheet



### Application

Industrial measurement equipment for manifold applications:

- Hydraulic and pneumatic systems
- Industrial engines
- HVAC/R equipment
- Spraying systems
- Cooling systems

See info sheet



Industrial design for various applications

4...20 mA or Modbus/RTU outputs

Cost-efficient affordable sensor solutions

Strong protection IP65 casing

Easy and flexible installation



## Calibration and Certification

(Re-) Calibration

Flow	Calibration
Dew Point	Calibration
Oil Vapor	Calibration

### SUTO iTEC Calibration

- SUTO iTEC owns high tech calibration facilities in Germany, Hong Kong and China
- Flow calibration under pressure and a wide range for highest accuracy
- Real gas calibration system for technical gases
- References and certificates are traceable to national standards

See info sheet



### Flow Calibration

- Accuracy: < 0.5% o. RDG
- Range: 0... 260 m/s (20°C 1000 mbar)
- Pressure: 0... 0.7 MPa
- Pipe sizes: DN8... DN100
- Medium: Compressed Air and technical Gases
- References: Sonic Nozzles, Laminar Flow Elements, Turbine Meter, Coriolis Meter



### Dew Point Calibration

- Accuracy Frost/Dew point:  $\leq \pm 0.1$  °C
- Accuracy Temperature:  $\leq \pm 0.07$  °C
- Calibration Range: -70... +20 °C Td
- Reference: MBW 373 Dew Point Hygrometer / Dew Point Mirror



### Oil Calibration

- Accuracy: >0.5 ppm,  $\pm 1.8$  % uncertainty; < 0.5 ppm  $\pm 2.5$  % uncertainty
- Gas: Isobutylene in synthetic air
- Reference: Traceable & certified gas
- Range: 0.000... 10.000 mg/m<sup>3</sup>
- Multiple activated carbon filtration system for accurate zero-point calibration

## SUTO iTEC Exchange Calibration Service



The exchange calibration service eliminates down time and enables users to have a seamless record of their measurements.

The user receives in advance a calibrated instrument with calibration certificate and the same instrument settings. The on-site instrument is then switched against the calibrated one and returned to the supplier.

Products from the following categories are **included** in the SUTO iTEC Exchange Calibration Service:

**Dew Point Meters**

**Air Quality Instruments**

## When Should You Calibrate Your Sensor?

- Recommended at least once per year unless otherwise stated:
  - S120 Oil Vapor Analyzer – once per year or 6000 hours
  - O<sub>2</sub>, CO<sub>2</sub> and CO sensors in S605 & S606 – reference gas calibration once per year and replaced every 24 months
- When there is doubt about the accuracy of results
- When there has been high contamination or faults in the system the sensor is installed

## Beyond Recalibration

- Did you know that SUTO iTEC's Recalibration Service includes expert cleaning and inspection?

You not only benefit from precision calibration but also expert cleaning and inspection.

Learn more about our (re-)calibration process on our website [www.suto-itec.com](http://www.suto-itec.com).



[www.suto-itec.com](http://www.suto-itec.com)



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