Product Overview 2024

Measurement Technology for Compressed Air, Gases and Liquids

.SUTO
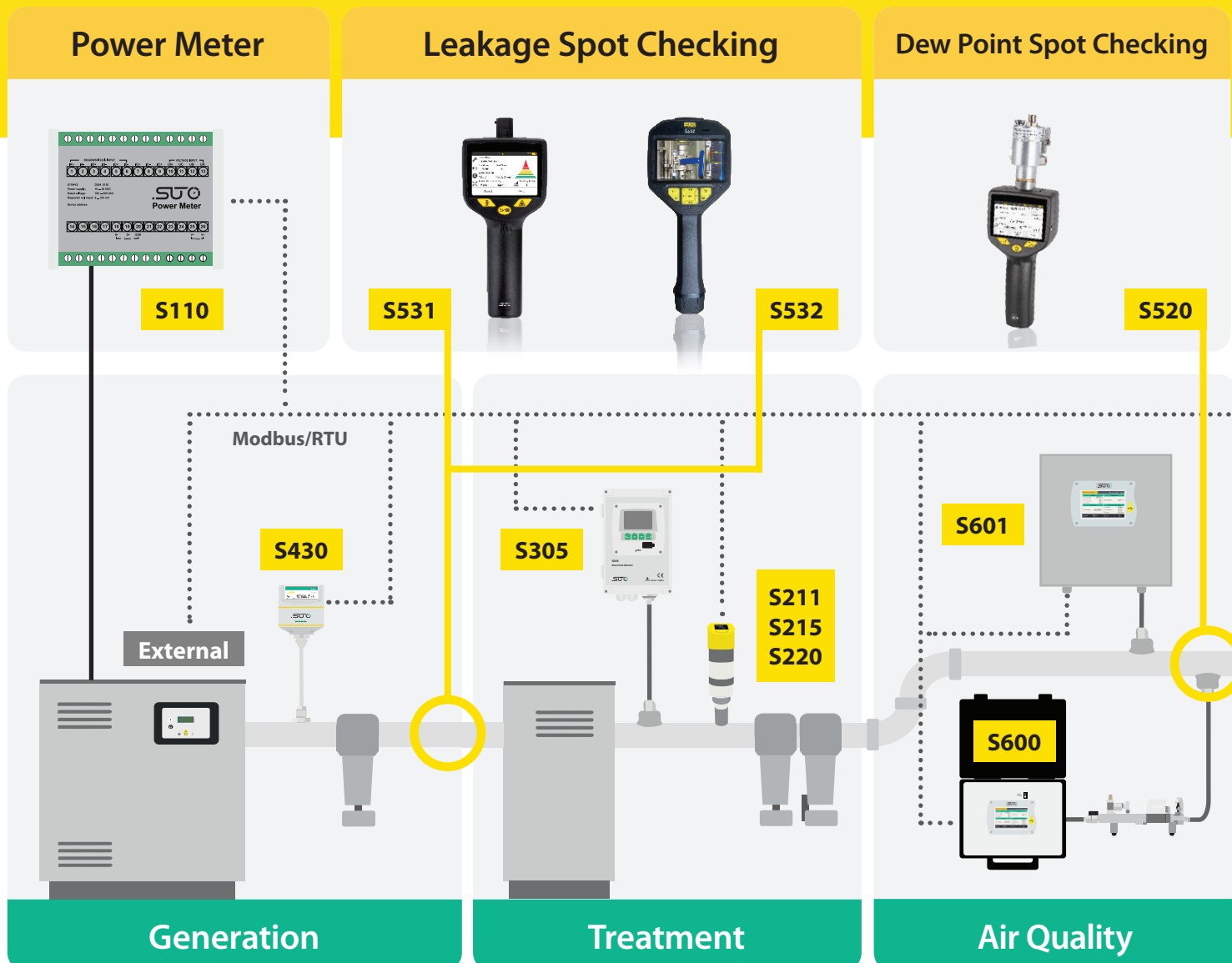
Be smart. **Measure it.**

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.

SUTO iTEC is a leader and 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 processes of leading companies around the world ensuring system reliability and efficiency.
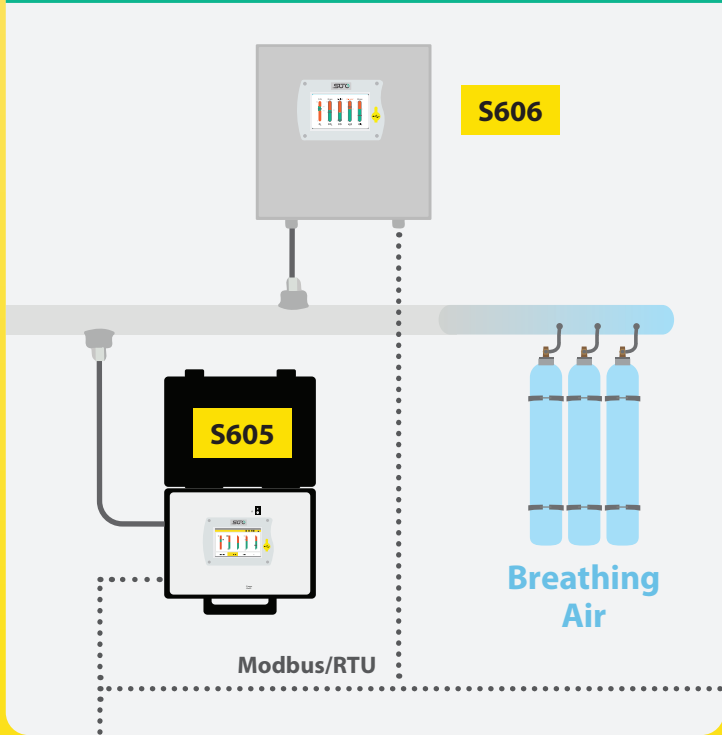
- ✓ System Performance and Reliability
- ✓ Energy Efficiency and Cost Reduction
- ✓ Product Quality and Safety
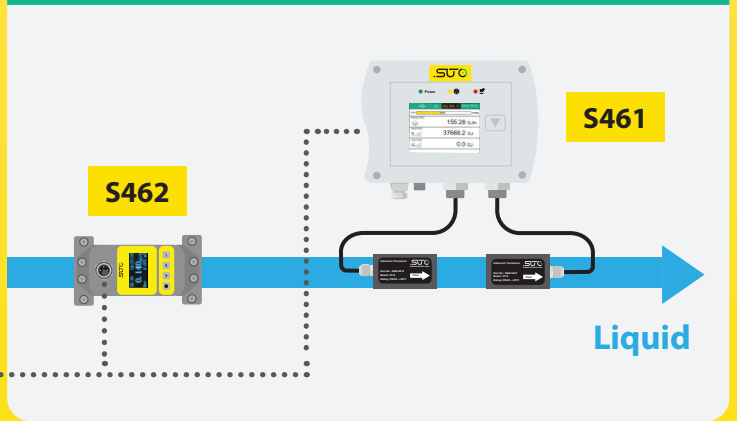- ✓ ISO Standard Compliance

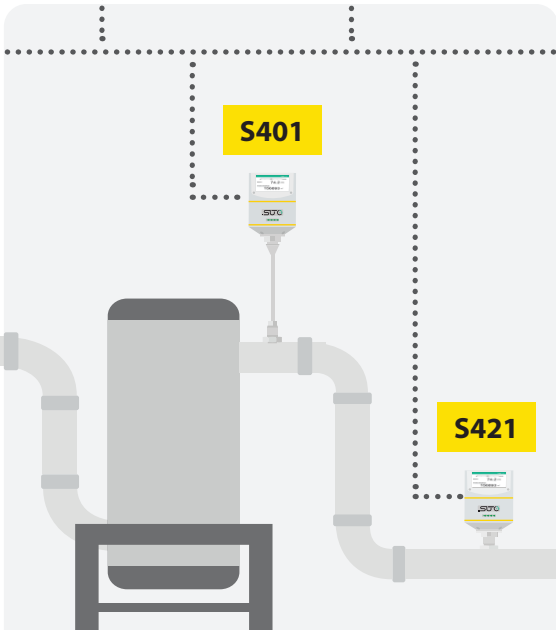| Power Meter	Leakage Spot Checking	Dew Point Spot Checking
S110	S531 — S532	S520

Modbus/RTU

S430

External

S305

S211
S215
S220

S601

S600

Generation	Treatment	Air Quality

Breathing Air

S606

S605

Modbus/RTU

Breathing Air

Liquids

S461

S462

Liquid

Data Logging

S330
S331

Data Analysis

S4M
SaaS

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Be smart. **Measure it.**
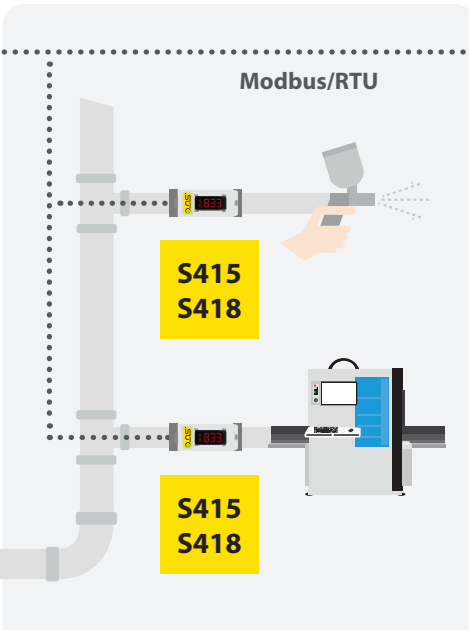
S401
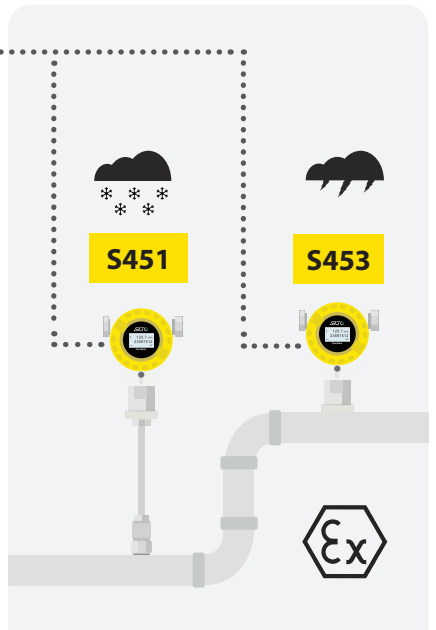
S421

Modbus/RTU

S415
S418

S415
S418

S451

S453

Ex
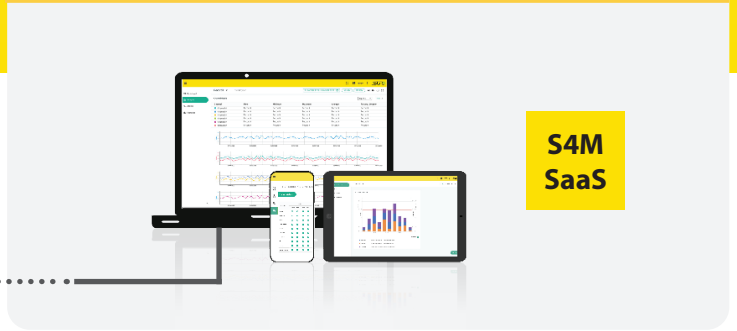
Distribution

Point-Of-Use

Outdoor/Ex

Flow and Consumption Meters for Compressed Air and Gases

.SUTO

Pitot Tube Flow Meter for Wet Air

Generation

S430 Insertion

S430

Installation

Insertion type for pipe sizes of DN32 to DN500 installation under pressure through 3/4" ball valve
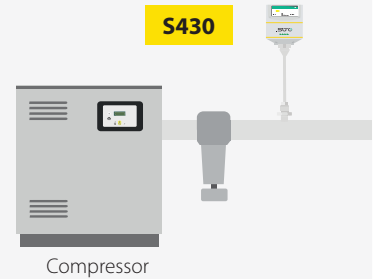
Signal Outputs

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

Application

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

Compressor

✓ Wet air measurement at the compressor outlet

✓ Fast response time for accurate results

✓ Easy and efficient monitoring

✓ Mobile app for remote configuration

See info sheet

Thermal Mass Flow Meter

Distribution

S401 Insertion

S401

Installation

Insertion type DN25 to DN500, installation under pressure through 1/2" ball valve

Signal Outputs

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

Application

- Non-intrusive solution to measure compressed air and gas consumption and flow in main and distribution lines
- Applications in a wide range of industries, helping with energy management, process control, cost allocation and quality assurance

Receiver Tank

✓ Easy Installation through 1/2" ball valve under pressure

✓ Mobile app for remote configuration

✓ Reliable total flow measurements

✓ Cost-efficient and affordable sensor solution

See info sheet

Thermal Mass Flow Meter

Distribution

S421 In-line

S421

Installation

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

Signal Outputs

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

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

S421

S421

✓ Easy Installation with pre-assembled measuring section

✓ Mobile app for remote configuration

✓ Reliable total flow measurements

✓ IP65 Casing provides robust protection

See info sheet

Flow and Consumption Meters for Compressed Air and Gases

Compact Thermal Mass Flow Meter

S415 — Economic

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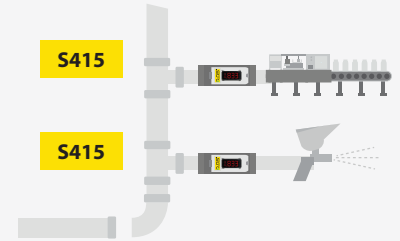In-line type: G inner thread connection - DN8, DN15, DN20, DN25 or DN32 (ISO 228-1)

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

S415

S415

✓ 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 or DN32 (ISO 228-1)
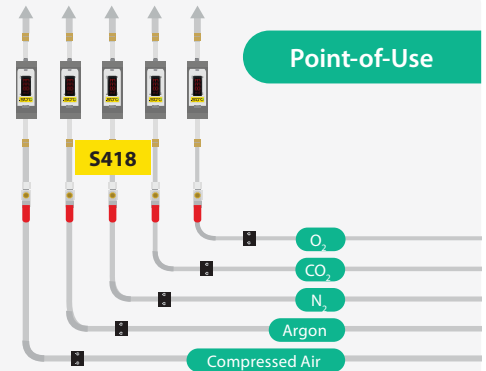
Signal Outputs
- Isolated 4 ... 20 mA & Pulse
- Modbus/RTU
- M-Bus

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

Point-of-Use

S418

O_2

CO_2

N_2

Argon

Compressed Air

✓ 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, DN25 or DN32 (ISO 228-1)
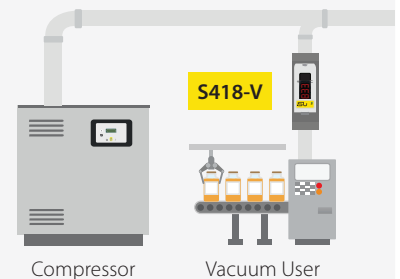
Signal Outputs
- Isolated 4 ... 20 mA & Pulse
- Modbus/RTU
- M-Bus

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

Point-of-Use

S418-V

Compressor

Vacuum User

✓ 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

Thermal Mass Flow Meter for Heavy Duty and Ex Applications

Outdoor and Ex

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

S451

✓ **Industrial design for harsh environments**

✓ **Easy Cleaning: All wetted parts stainless steel**

✓ **Explosion proof for use in Ex-area applications**

✓ **Pressure and temperature independence**

See info sheet

Thermal Mass Flow Meter for Heavy Duty and Ex Applications

Outdoor and Ex

S453 **In-line**

Installation
Inline type flow meter with measuring sections from DN25 to DN80 (R-thread / Flange)
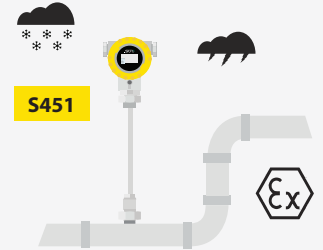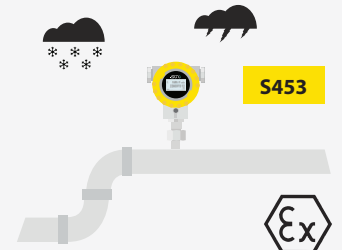
Signal Outputs
- 2 x 4... 20 mA, pulse & Modbus/RTU
- 2 x 4... 20 mA, pulse & Ethernet/APL (Modbus/TCP protocol)

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

S453

✓ **Industrial design for harsh environments**

✓ **Easy Installation with pre-assembled measuring section**

✓ **Explosion proof for use in Ex-area applications**

✓ **Accurate results and fast response time**

See info sheet

Thermal Mass Flow Direction Switch

Multiple Locations

S409 **Insertion**

Installation
Insertion type DN25 to DN500, 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

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

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Dew Point Sensor

S211 | -60 ... +20 ºC Td

Optional Display

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

Measured Gases

Air / CO_2 / N_2 / O_2 / Argon

Operating pressure
- 0 ... 1.6 MPa
- Optional 35.0 MPa

Application

Dew point measurements after desiccant dryers

Treatment

S211

Desiccant Dryer

✓ **Compact design for installation anywhere**

✓ **-60 ... +20 ºC Td After desiccant dryers**

✓ **Integrated pressure sensor (option)**

✓ **Long term stable for low maintenance costs**

See info sheet

Dew Point Sensor

S215 | -20 ... +50 ºC Td

Optional Display

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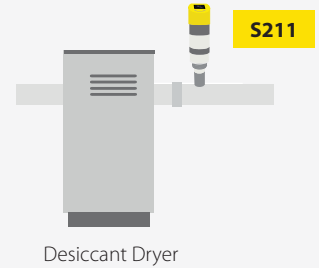- 4 ... 20 mA 3-wire + Modbus/RTU

Measured Gases

Air / CO_2 / N_2 / O_2 / Argon

Operating pressure
- 0 ... 1.6 MPa
- Optional 35.0 MPa

Application

Dew point measurements after fridge dryers

Treatment

S215

Fridge Dryer

✓ **Compact design for easy and flexible installation**

✓ **-20 ... +50 ºC Td After fridge dryers**

✓ **Integrated pressure sensor (option)**

✓ **High Precision ± 2 °C Td Accuracy**

See info sheet

Dew Point Sensor

S220 | -100 ... +20 ºC Td

Optional Display

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

Measured Gases

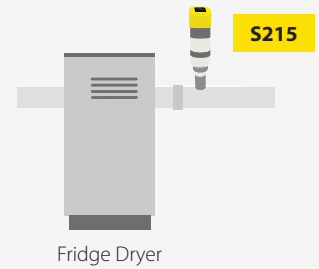Air / CO_2 / N_2 / O_2 / Argon
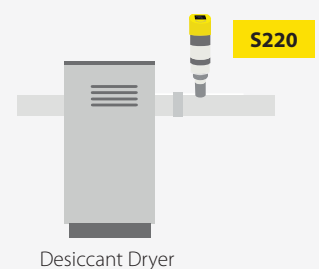
Operating pressure

0 ... 1.6 MPa

Application

Dew point measurements in high tech requirements and conditions

Treatment

S220

Desiccant Dryer

✓ **Dual sensor solution (QCM + polymer) for high accuracy**

✓ **-100 ... +20 ºC Td for high tech applications**

✓ **Compressed Air Quality Monitoring**

✓ **Precise and stable measurement (± 2 °C Td Accuracy)**

See info sheet

Dew Point Meters for Compressed Air and Gases

Dew Point Transmitter for Ex Applications

S230	-100 ... +20 ºC Td
S231	-50 ... +20 ºC Td

Outdoor and Ex

S230
S231

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

Signal Outputs
• 4 ... 20 mA (isolated)
• Modbus/RTU

Measured Gases
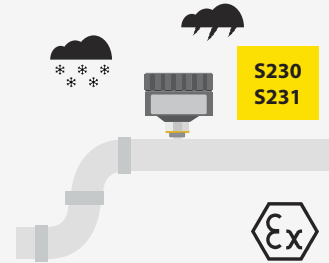Air / CO_2 / N_2 / O_2 / Argon

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

See info sheet

✓ **Explosion proof for use in Ex-area applications**

✓ **Low dew point measures down to -100 °C Td**

✓ **Industrial design for rough environment**

✓ **Dual sensor system for full range precision**

Dew Point Monitor

S305	-50 ... +20 ºC Td
	-20 ... +50 ºC Td

Dryer Monitoring

S305

Fridge and Desiccant Dryer

Installation
Stationary Installation easy process connection via 6 mm quick connect

Signal Outputs
4 ... 20 mA 3-wire

Measured Gases
Air / CO_2 / N_2 / O_2 / Argon

Operating pressure
0.3 ... 1.5 MPa

Application
• Monitor fridge and desiccant driers
• Simple after market installation
• Process humidity monitoring and notification in case of alarms

See info sheet

✓ **Plug & Play solution for simple and fast connection**

✓ **Alarm indication with internal relays or alarm units**

✓ **-50 ... +50 °C Td Range depending on model**

✓ **Fast response time for efficient monitoring**

Portable Dew Point Meter

S520	-100 ... +20 ºC Td
	-50 ... +50 °C Td

Mobile Measurements

S520

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_2 / N_2 / O_2 / Argon

Signal Outputs
• Internal data logger
• On site print outs
• USB interface for data transfer

Application
• ISO 8573-1 dew point audits
• Dew point checks at the point of use
• Drier performance checks
• Measure absolute humidity in units like ppm or mg/m^3

See info sheet

✓ **Smart device with dew point prediction**

✓ **Flexible dew point meter for on-site live data**

✓ **Low dew point, down to -100 °C Td**

✓ **Dew point audits according to ISO 8573-1**

Air Quality Instruments for Compressed Air and Gases

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Oil Vapor Monitor

S120 — Display & Data Logger

Installation
Easy process connection via 6 mm quick connect

Signal Outputs
- 4 ... 20 mA (isolated)
- Modbus/RTU
- Modbus/TCP (available for display version)
- Alarm Relay: NO, 40 VDC, 0.2 A
- USB

Pressure Range
- 0.3 ... 1.5 MPa
- 600 ... 1070 hPa abs. (Ambient version only)

Measured Gases
Compressed Air, Nitrogen N_2, Carbon dioxide CO_2 (software setting)

Application
Permanent monitoring of oil content in compressed air and gas systems to ensure crucial processes in:
- Medical and pharma industry,
- Food and beverage,
- Semiconductor fabs
- High tech applications

Point-of-use

S120

Receiver Tank

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 < d ≤ 5.0 µm)
S132 — PRO (0.1 < d ≤ 5.0 µm)

Installation
Easy process connection via 6 mm quick connect

Signal Outputs
- Modbus/RTU
- Alarm Relay: NO, 40 VDC, 0.2 A
- USB

Pressure Range
0.3 ... 1.5 MPa

Measured Gases
Compressed Air, Nitrogen N_2, Carbon dioxide CO_2 (software setting)

Application
- Permanent particle measurement and monitoring of compressed air and gases in high tech applications.
- Fulfilling requirements according to compressed air standard ISO 8573-4.

Point-of-use

S130 / S132

Receiver Tank

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 & Play

Installation
Easy process connection via 6 mm quick connect

Signal Outputs
- Modbus/RTU
- Modbus/TCP
- USB
- 4G/LTE Modem (optional)

Pressure Range
0.3 ... 1.5 MPa

Measured Gases
Compressed Air, Nitrogen N_2, Carbon dioxide CO_2 (software setting)

Application
- Air quality measurements in medical, pharmaceutical, food and beverage and other applications
- Compressed air quality audits in regards to the ISO 8573-1
- Monitoring of high tech applications with strict air purity requirements

Mobile Measurements

S600
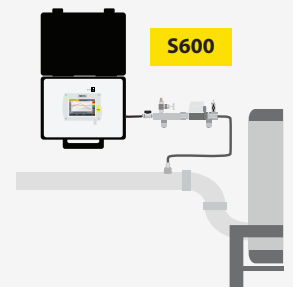
See info sheet

- ✓ 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 & Play

S601

Installation
Robust wall mountable cabinet with 6 mm hose connection

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

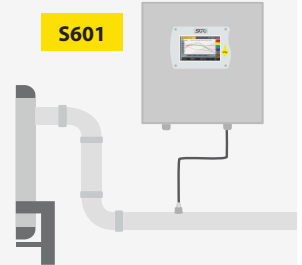**Pressure Range**
0.3 ... 1.5 MPa

Measured Gases
Air / CO_2 / N_2 / O_2 / 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.

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 & Play

S605

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)

Inlet Pressure
3 ... 15 barg, External pressure reducer allow up to 350 bar process pressure
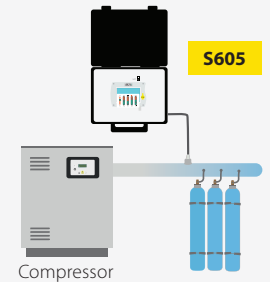
Measured Gases
Breathing air gases

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).

Compressor

See info sheet

- ✓ **All in One: O_2, CO_2, CO, H_2O, Oil, Pressure**
- ✓ **Plug & Play with simple and fast connection**
- ✓ **Ultra-portable and compact design**
- ✓ **Powerful PDF breathing air report generator**

Stationary Breathing Air Monitor

S606 — 5 in 1 Plug & Play

S606

Installation
Wall mountable cabinet with 6 mm hose connection

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

Inlet Pressure
3 ... 15 barg, External pressure reducer allow up to 350 bar process pressure
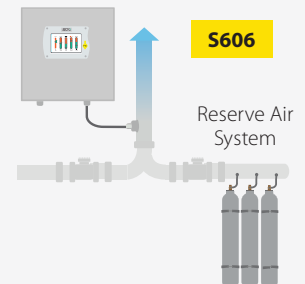
Measured Gases
Breathing air gases

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).

Reserve Air System

See info sheet

- ✓ **All in One: O_2, CO_2, CO, H_2O, Oil, Pressure**
- ✓ **Permanent monitoring with alarm information**
- ✓ **Single gas inlet for a convenient setup**
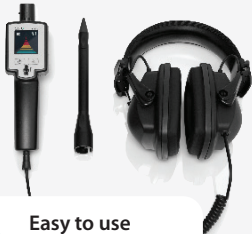- ✓ **Robust metal cabinet for rough environments**

Leak Detection for Compressed Air and Gases

Ultrasonic Leak Detector (for Compressed Air, Gas and Pneumatic Systems)

S530 — Portable

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

- ✓ 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

Smart Ultrasonic Leak Detector
(for Compressed Air, Gas and Pneumatic Systems)

S531 — Portable

See info sheet

Free LMS License

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

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

- ✓ Leak detection even from distance
- ✓ Big memory for leak records, photos and voice recording
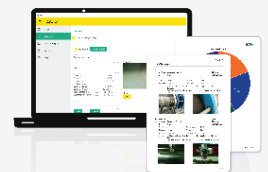- ✓ Integrated camera for leak photos
- ✓ Data analysis and loss calculation

Leak Management Software

LMS — Local Installation

Installation
Local installation for easy setup and local data storage
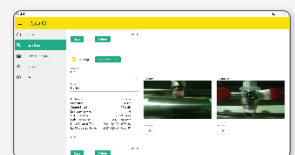
Application
The Leak Management Software (LMS) enables companies to properly manage their leakage detection and repair activities.

LMS + **S531/S532**

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

Acoustic Leak Camera (for Compressed Air, Gas, Pneumatic Systems and Partial Discharge)

S532 — Portable

See info sheet

Free LMS License

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)

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

- ✓ Detects leaks up to 150 meters
- ✓ Real-time leak visualization
- ✓ Built-in camera for leak photos
- ✓ Data analysis and loss calculation

Flow and Consumption Meters for Liquids and Steam

Ultrasonic Flow Meter for Liquids

S461 — Clamp-On

Multiple Locations

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)

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

S461

See info sheet

- ✓ Non-Invasive through clamp-on sensors
- ✓ Smartphone app for easy configuration
- ✓ Energy Meter Monitors heat exchangers
- ✓ Easy installation Various installation options anywhere

Compact Ultrasonic Flow Meter for Liquids

S462 — Clamp-On

Multiple Locations

Installation
- Clamp-On for pipe sizes of DN20 ... DN40
- Can be installed on stainless steel pipe, carbon steel pipe, copper pipe or plastic pipe.
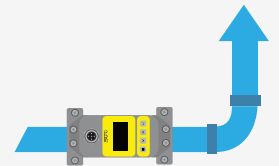
Signal Outputs
- Isolated 4 ... 20 mA (Analog)
- Modbus/RTU

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

S462

See info sheet

- ✓ Clamp On: No contact to medium
- ✓ Advanced Transit Time Correlation Technology
- ✓ Cost-efficient and affordable sensor solution
- ✓ Stationary: Connectable to S330/S331

Vortex Flow Meter for Steam

S435 — In-Line

Steam Pipes

Installation
Intermediate flange installation for pipe sizes from DN40 ... DN300
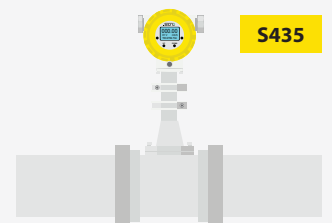
Signal Outputs
- 4 ... 20 mA
- Pulse
- Modbus/RTU

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.

S435

See info sheet

- ✓ Effective and inexpensive measurements
- ✓ Local display for easy configuration and live values
- ✓ Vortex flow measurement for accurate results
- ✓ Temperature sensor with automatic density adjustment

Displays / Data Logger and IIoT for Data Logging and Visualization

Display for Sensors

S320	Local installation

Installation
- Panel mounting (standard)
- Wall mounting
- Hat rail holder (only in connection with wall mounting casing)

Sensor Inputs
- 1 input for SUTO flow/ dew point sensor
- 1 input for analog sensor 0 ... 20 mA, 0 ... 10 V

Application
Convenient data reading from difficult-to-access sensors.

Data Visualization

S320

Receiver Tank

✓ User-friendly design for easy usage

✓ USB Interface Configuration with S4C software

✓ Alarm function with optional alarm settings

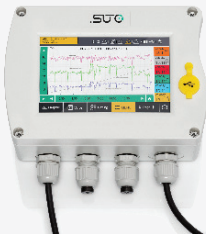✓ Signal digital and analog inputs

See info sheet

Display and Data Logger

S330	Display
S331	Data Logger

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.).

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

Data Logging

S331

Outputs
- Modbus/TCP (Ethernet)
- Modbus/RTU (RS 485)
- USB
- 2 Alarm relay outputs

✓ 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

Portable Display and Data Logger

S551	Portable

Installation
Portable solution: Carrying case for a flexible and efficient usage at the point-of-use
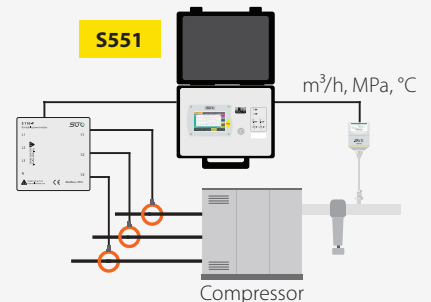
Sensor Inputs
Up to 20 sensors inputs:
- 2 x SDI
- 2 x analog
- 16 x Modbus

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

Multiple Locations

S551

m³/h, MPa, °C

Compressor

✓ Auto detection of SDI or Modbus SUTO sensors

✓ Versatile connection with 20 sensors inputs

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

✓ Large 5" color LCD touch screen

See info sheet

Monitoring and Application Software and Apps

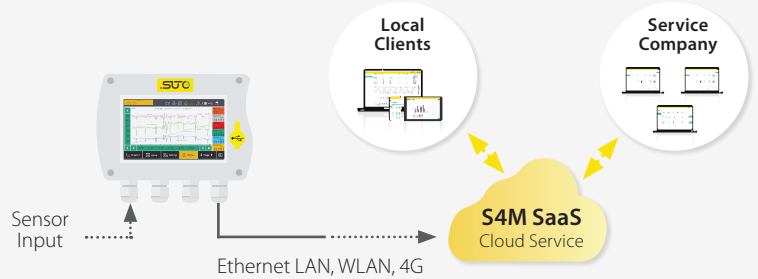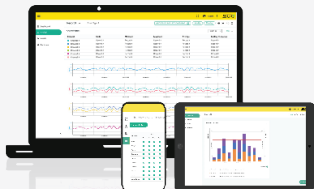## Smart Compressed Air System Monitoring Software

| S4M | SaaS Cloud |

Monitoring, Visualization and Analysis

Benefits

All-in-one monitoring solution for compressed air systems.

The powerful software features helps users to get their compressed air system under control

Local Clients

Service Company

Sensor Input

Ethernet LAN, WLAN, 4G

S4M SaaS Cloud Service

✓ Process Value Visualization

✓ Extensive Data Analysis

✓ Customer and Location Management

✓ Alarms & Notifications

✓ Powerful Report Module

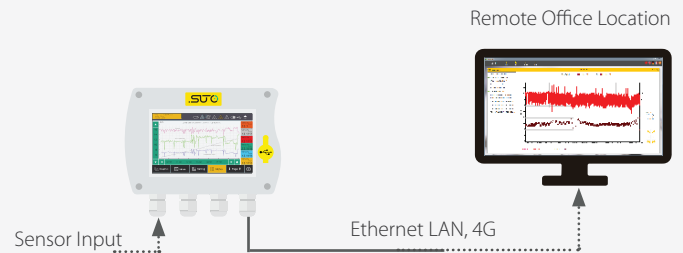See info sheet

Data Analysis Software

| S4A | Local |

Data Visualization and Analysis

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

Remote Office Location

Sensor Input

Ethernet LAN, 4G

✓ Powerful graphic analysis

✓ Analysis on Exported Files (.XLSX and .CSV)

✓ Readout of screenshots from SUTO S331

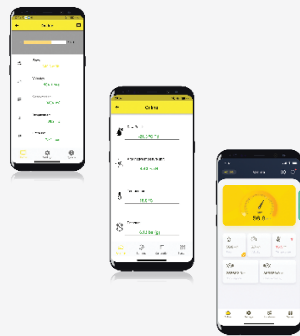✓ Online reading via USB, Ethernet or WLAN connection

See info sheet

Free Mobile Apps

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

Data Visualization and Configuration

Applications

- SUTO 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 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

Current Meter, other Sensors and Calibration Service

.SUTO

Power Meter

| S110 | Stationary |
| S110-P | Portable |

Generation

Installation
DIN rail installation for power cabinets or portable version with rugged housing
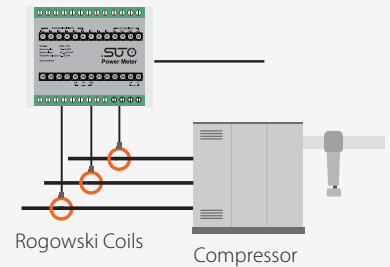
Signal Outputs
- Isolated 4 ... 20 mA (Analog)
- Modbus/RTU

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.

Rogowski Coils

Compressor

✓ 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

Other Sensors

S010	Pressure
S020	Temperature
S030	Electrical Current

Installation
Easy installation in compressed air systems (for more information visit www.suto-itec.com)

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

Application
Industrial equipment for manifold applications
- Hydraulic and pneumatic systems
- Industrial engines
- HVAC/R equipment
- Spraying systems
- Cooling systems

S010
See info sheet

S020
See info sheet

S030
See info sheet

✓ Industrial design for various applications

✓ 4 ... 20 mA output connection

✓ Cost-efficient affordable sensor solutions

✓ Strong Protection IP65 Casing

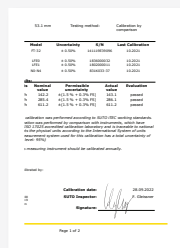## Calibration and Certification

Flow	Calibration
Dew Point	Calibration
Oil Vapor	Calibration

SUTO Calibration
- SUTO iTEC owns high tech calibration facilities in Germany, Hong Kong SAR and Mainland 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

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.
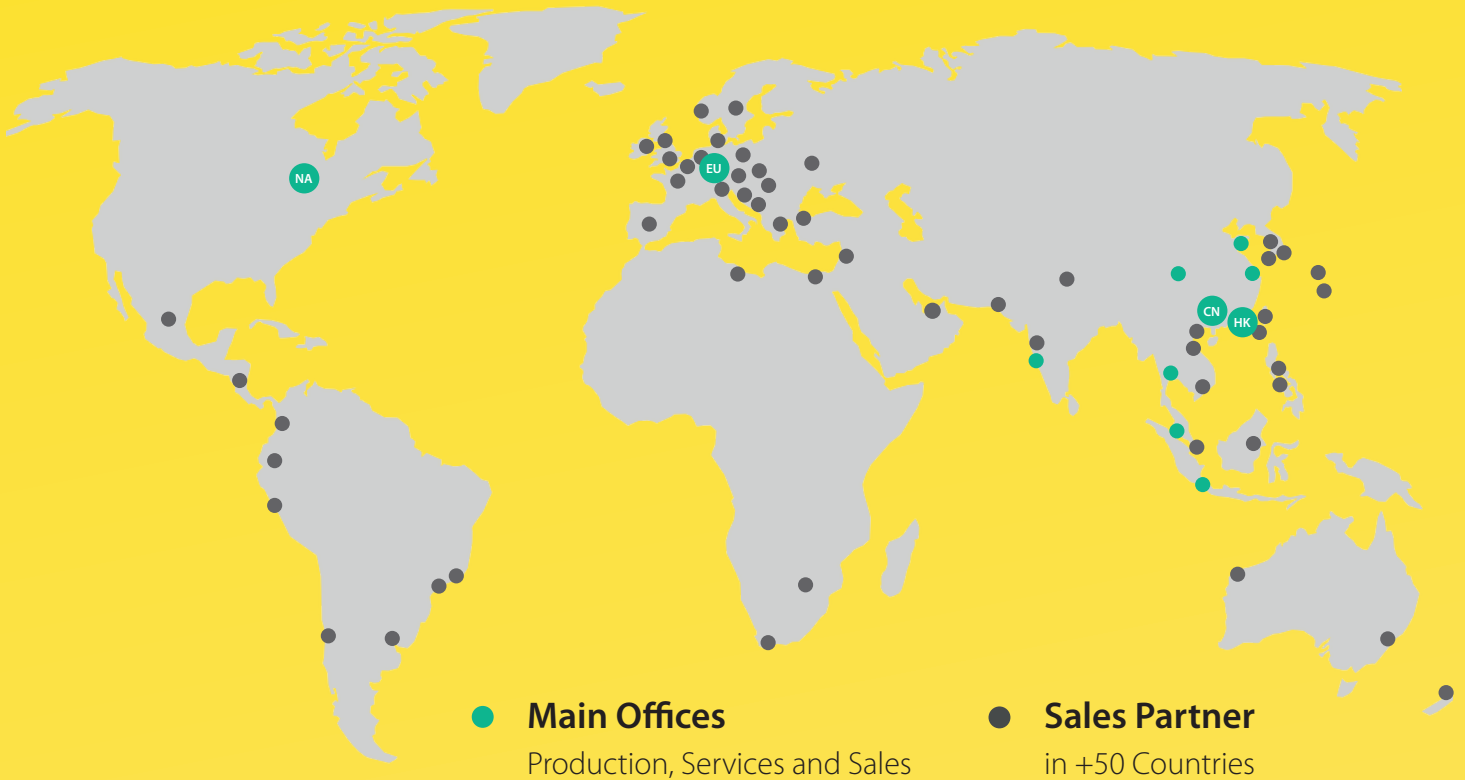
See info sheet

✓ Various Calibrations:
Flow / Dew Point / Oil Vapor / Particle / Pressure/ Temperature

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.SUTO

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