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Product Overview 2023/24

Measurement Technology for Compressed Air, Gases and Liquids

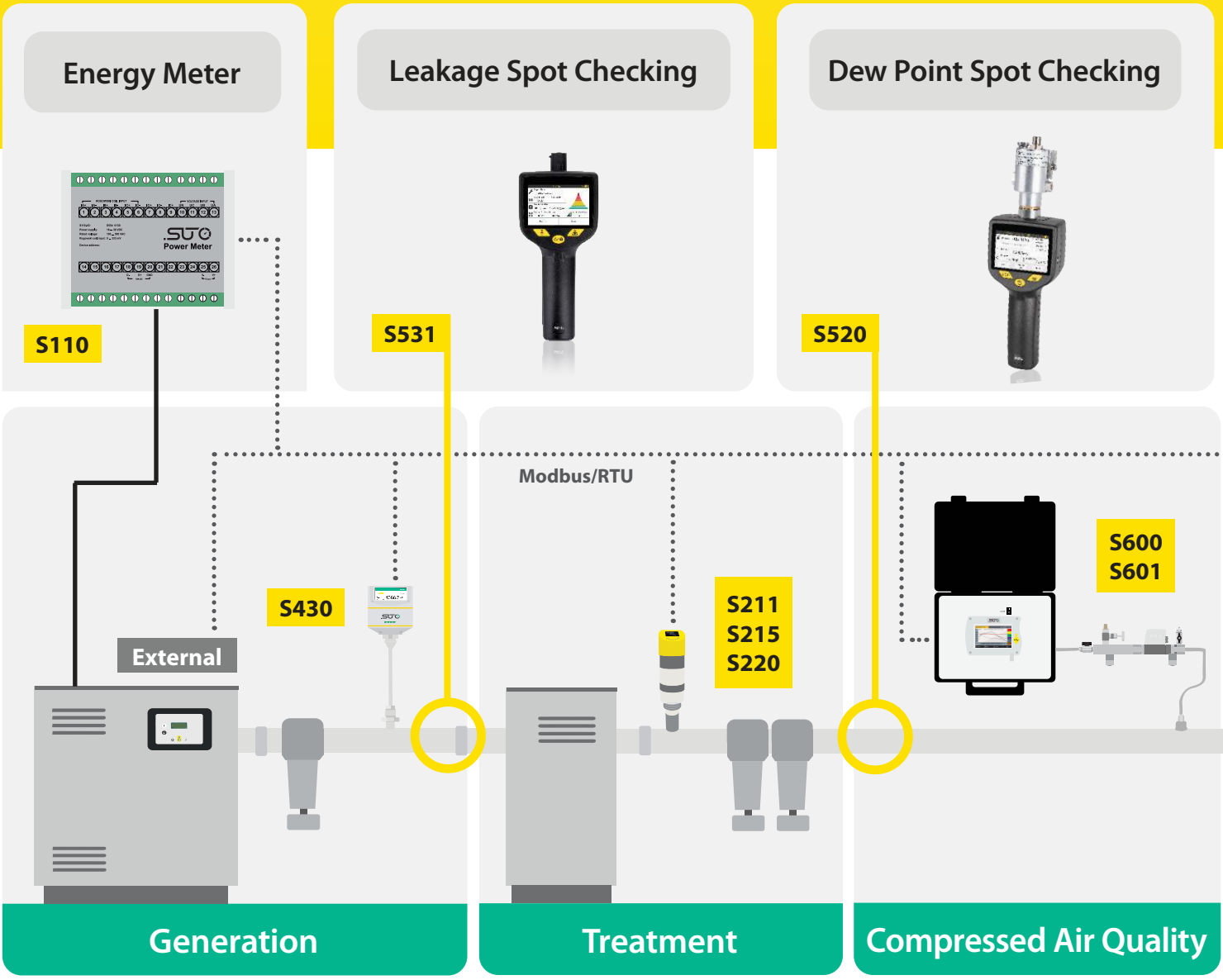
Be smart. **Measure it.**

Advanced Measurement Solutions

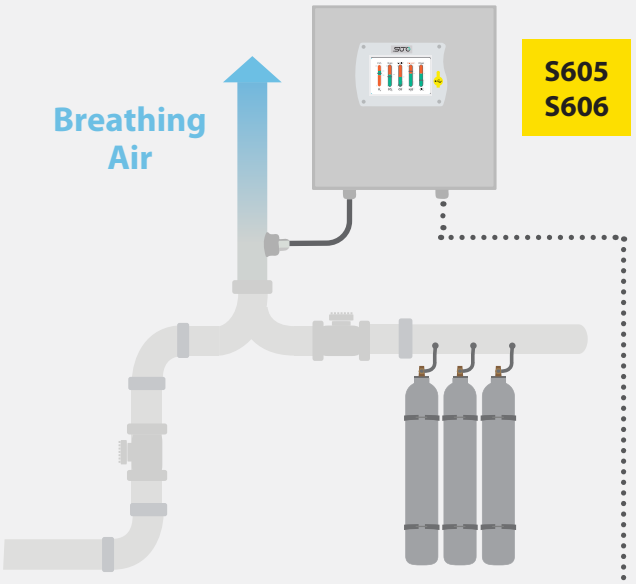
Compressed Air and Gas Monitoring - get your system under control

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.

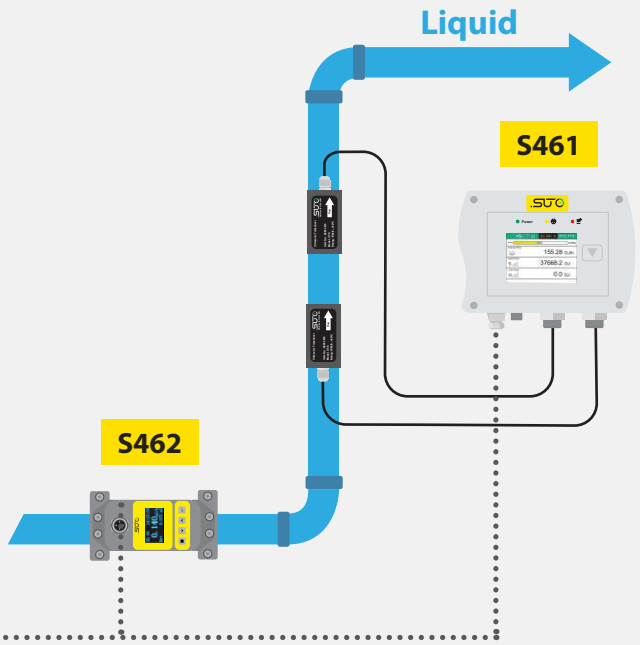
- System Performance and Reliability
- Energy Efficiency and Cost Reduction
- Product Quality and Safety
- ISO Purity Requirements



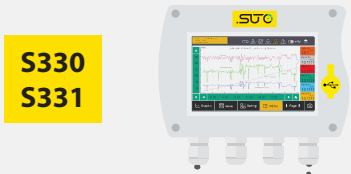
Breathing Air



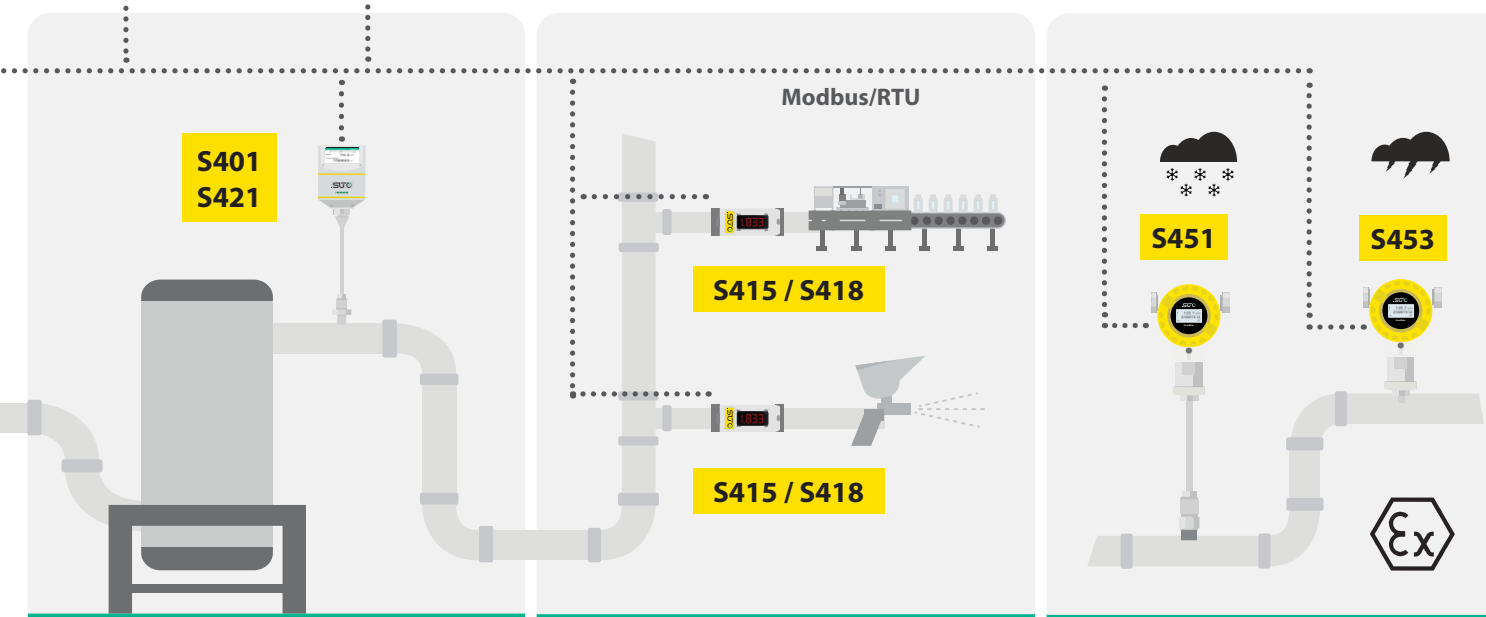
Liquids



Data Logging



Data Analysis



Distribution

Point-Of-Use

Outdoor/Ex

Flow and Consumption Meters
for Compressed Air and Gases

Pitot Tube Flow Meter for Wet Air

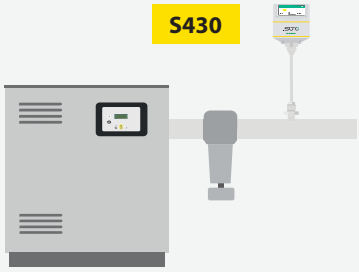
S430 Insertion

Generation

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



- **Wet Air** Measurement at the compressor outlet
- **Fast response time** For accurate results
- **Easy Monitoring** Effective measurements
- **Mobile App** For remote configuration
- **Stable Results** No mechanical wear parts

Thermal Mass Flow Meter

S401 Insertion

Distribution

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 various industries, aiding in energy management, process control, cost allocation and quality assurance

- **Easy Installation** Through 1/2" ball valve under pressure
- **Mobile App** For remote configuration
- **Total Flow** Reliable measurements
- **IP65 Casing** Provides robust protection
- **Cost-efficient** Affordable sensor solution

Thermal Mass Flow Meter

S421 In-line

Distribution

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
- Non-intrusive 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

- **Easy Installation** With measuring section
- **Mobile App** For remote configuration
- **Total Flow** Reliable measurements
- **IP65 Casing** Provides robust protection
- **Cost-efficient** Affordable sensor solution

Flow and Consumption Meters
for Compressed Air and Gases

Compact Thermal Mass Flow Meter

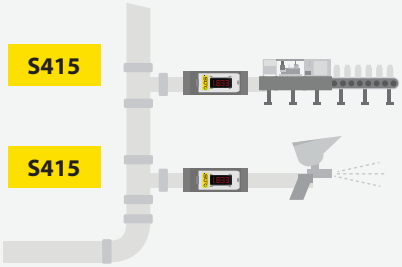
S415 Economic

Point-of-Use

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** Monitoring of compressed air and nitrogen
- **Cost-efficient** Affordable sensor solution
- **Total Mass Flow** No bypass measurement
- **Compact Design** For easy and flexible installation
- **Flow Conditioner** No straight inlet required

Compact Thermal Mass Flow Meter

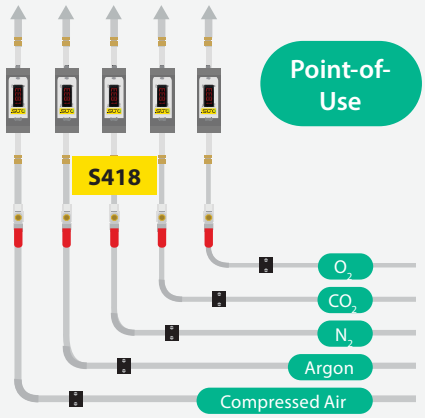
S418 High End

Point-of-Use

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** Monitoring of machines and consumers
- **Data Logger** Easy recording of measurement data
- **Total Mass Flow** No bypass measurement needed
- **Compact Design** For easy and flexible installation
- **Flow Conditioner** No straight inlet required

Compact Thermal Mass Flow Meter

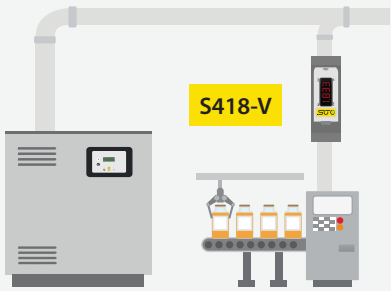
S418-V Vacuum

Point-of-Use

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** Monitoring of vacuum pumps
- **Vacuum Flow** Abs. Pressure Sensor integrated
- **Accurate Results** Integrated flow conditioner
- **Total Mass Flow** No bypass measurement needed
- **Compact Design** For easy and flexible installation

Flow and Consumption Meters
for Compressed Air and Gases

Thermal Mass Flow Meter for Heavy Duty and Ex Applications

S451 Insertion

Outdoor and Ex

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

- **Industrial Design** For outdoor applications
- **Easy to Clean** All wetted parts stainless steel
- **Explosion Proof** Use in Ex-area applications
- **Accurate Results** Very fast response time
- **High Stability** Pressure & temperature independent

Thermal Mass Flow Meter for Heavy Duty and Ex Applications

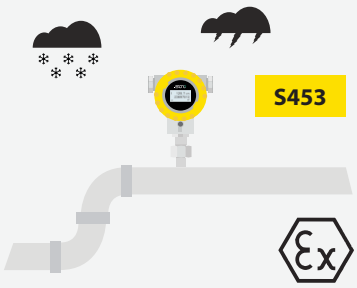
S453 In-line

Outdoor and Ex

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



- **Industrial Design** For outdoor applications
- **Easy to Clean** All wetted parts stainless steel
- **Explosion Proof** Use in Ex-area applications
- **Accurate Results** Very fast response time
- **High Stability** Pressure & temperature independent

Thermal Mass Flow Direction Switch

S409 Insertion

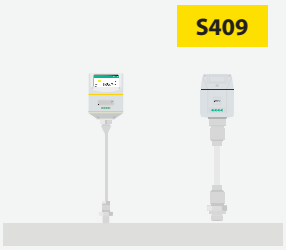
Multiple Locations

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

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

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

Two seperated relays for direction indication



- **Easy Installation** Non-intrusive solution
- **Mobile App** For remote configuration
- **Total Flow** Reliable measurements
- **IP65 Casing** Provides robust protection
- **Cost-efficient** Affordable sensor solution

Dew Point Meters
for Compressed Air and Gases

Dew Point Sensor

S211 -60 ... +20 °C Td

Installation
G1/2" Process connection for installtion 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

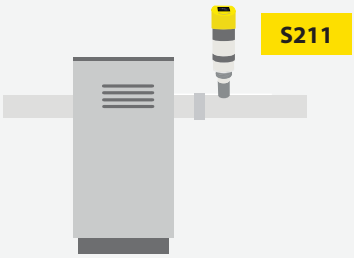
Optional Display

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



Desiccant Dryer

- **Compact Design** Installation anywhere
- **-60 ... +20 °C Td** After desiccant dryers
- **Pressure Sensor** Integrated as option
- **High Precision** ± 2 °C Td Accuracy
- **Long term stable** Low Maintenance Costs

Dew Point Sensor

S215 -20 ... +50 °C Td

Installation
G1/2" Process connection for installtion 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

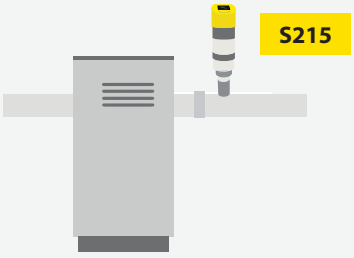
Optional Display

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



Fridge Dryer

- **Compact Design** Installation anywhere
- **-20 ... +50 °C Td** After fridge dryers
- **Pressure Sensor** Integrated as option
- **High Precision** ± 2 °C Td Accuracy
- **Long term stable** Low Maintenance Costs

Dew Point Sensor

S220 -100 ... +20 °C Td

Installation
G1/2" Process connection for installtion 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

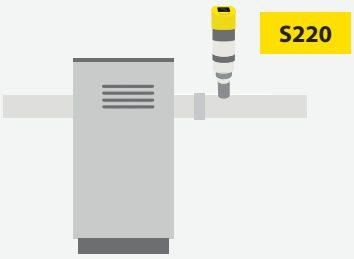
Optional Display

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



Desiccant Dryer

- **Compact Design** Installation anywhere
- **-100 ... +20 °C Td** For high tech applications
- **Compressed Air Quality** Monitors humidity
- **Precise Measurement** ± 2 °C Td Accuracy
- **Pressure Sensor** Integrated as option

Dew Point Meters
for Compressed Air and Gases

Dew Point Transmitter for Ex Applications

S230 -100 ... +20 °C Td

S231 -50 ... +20 °C Td

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

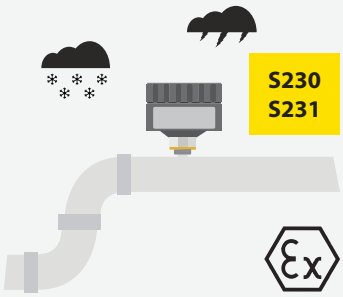
Operating pressure
- -0.1 ... 1.6 MPa (S230)
- -0.1 ... 35 MPa (S231)

Measured Gases
Air / CO_2 / N_2 / O_2 / Argon

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

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

Outdoor and Ex



- **Explosion Proof** Use in Ex-area applications
- **Low Dew Point** Measures down to -100 °C Td
- **Industrial Design** For rough environment
- **Precise Measurement** Unique QCM technology
- **Dual Sensor System** Full range precision

Dew Point Monitor

S305 -50 ... +20 °C Td

-20 ... +50 °C Td

Installation
Stationary Installation easy process connection via 6 mm quick connect

Operating pressure
- 0.3 ... 1.5 MPa

Measured Gases
Air / CO_2 / N_2 / O_2 / Argon

Signal Outputs
- 4 ... 20 mA 3-wire

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

Dryer Monitoring

Fridge and Desiccant Dryer

- **Plug & Play** Simple and fast connection
- **Fast Response Time** Time-efficient
- **-50 ... +50 °C Td** Range depending on model
- **Precise Measurement** ± 2 °C Td Accuracy
- **Alarm Indication** With internal relays or alarm units

Portable Dew Point Meter

S520 -100 ... +20 °C Td

-50 ... +50 °C Td

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

Mobile Measurements

- **Smart device** Dew point prediction
- **Pressure Sensor** Various humidity units
- **Low Dew Point** Measures down to -100 °C Td
- **Data Logger** Integrated mass storage
- **Dew Point Audits** Indication of classes

Air Quality Instruments
for Compressed Air and Gases

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 and high tech applications

Point-of-use

- **Accurate Results** Latest PID senor technology
- **Compact Design** Can be installed anywhere
- **Easy Installation** Plug and Play Solution
- **Data Logger** Storage of 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 participle 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

- **Particle Measurement** According ISO 8573
- **Pro Version S132** Smallest channel 0.1 < d ≤ 0.5 µm
- **Data Logger** To save and print data
- **Easy Installation** Plug and Play Solution
- **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

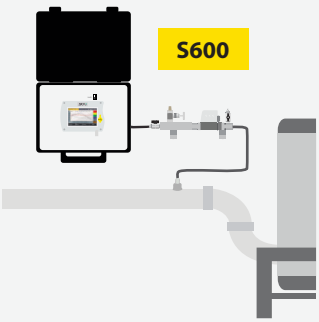
Signal Outputs
- Modbus/RTU
- Modbus/TCP
- USB
- 4G/LTE Modem (optional)

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



- **All in One** Dew point, particle and oil vapor
- **Touch Screen** For easy operation
- **Portable Unit** Can be carried with one hand
- **High Precision** Accurate measurements
- **Compact Design** Makes it unique
- **4G/LTE Option** For data transfer

Air Quality Instruments
for Compressed Air and Gases

Stationary Compressed Air Purity Monitor

S601 5 in 1 Plug & Play

Installation
Wall mountable cabinet with 6 mm hose connection.

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

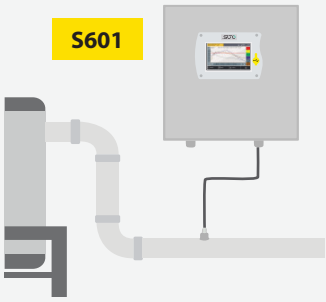
Pressure Range
0.3 ... 1.5 MPa

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.

Treatment



- **All in One** Dew point, particle and oil vapor
- **Easy to Use** User-friendly design
- **Data Logger** Storage of measurements
- **High Precision** Accurate measurements
- **Permanent Monitoring** 24/7 quality measurements
- **Robust Cabinet** For rough industrial applications

Portable Breathing Air Analyzer

S605 6 in 1 Plug & Play

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

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

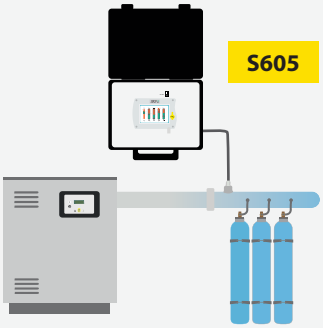
Inlet Pressure
3 ... 15 barg, External pressure reducer allow up to 350 bar process pressure

Measured Gases
Breathing air analysis

Application
Regular checks of breathing air systems in various sectors as fire fighting, diving, spray painting, chemical industry, offshore and high tech applications.

Meet requirements of international standards such as EN 12021 or CFSR 1910.134(d).

Point-of-use



- **All in One** O_2, CO_2, CO, H_2O, Oil, Pressure
- **Plug & Play** Simple and fast connection
- **Ultra Portable** With one hand
- **High Precision** Accurate measurements
- **Compact Design** Simple and efficient
- **PDF Generator** Powerful PDF Reporting

Stationary Breathing Air Monitor

S606 5 in 1 Plug & Play

Installation
Wall mountable cabinet with 6 mm hose connection.

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

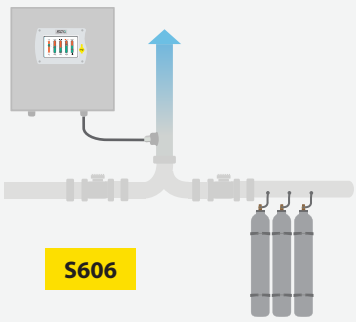
Inlet Pressure
3 ... 15 barg, External pressure reducer allow up to 350 bar process pressure

Measured Gases
Breathing air analysis

Application
Permanent Monitoring of all crucial breathing air parameters, to ensure that the breathing air is safe for health and the process.

Crucial Industries and sectors rely on a reliable breathing air supply, e.g. fire fighting, diving, spray painting, chemical industry, offshore and high tech applications.

Generation



- **All in One** O_2, CO_2, CO, H_2O, Oil, Pressure
- **Permanent Monitoring** 24/7 monitoring
- **Data Logger** Storage of measurements
- **Alarm Function** Accurate measurements
- **Easy to Use** Simple and fast connection

Leak Detection
for Compressed Air and Gases

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

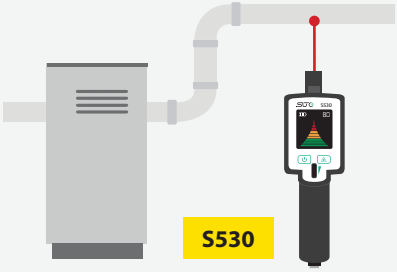
Mobile Measurements

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** Find leaks in minutes
- **Laser Pointer** Quick spot the leak
- **Compact Design** Can be used anywhere
- **Noise Isolated Headset** Inaudible signals easily to be heard
- **Long Battery Life** For long working hours

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

Mobile Measurements

S531 Portable

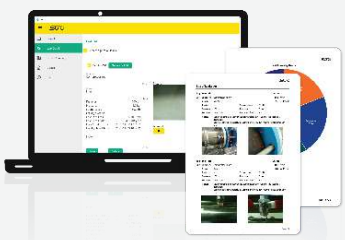
Application
The S531 helps users quickly find and record leakages in their compressed air, gas and pneumatic system.
- Ultrasonic
- With focus tube and focus tip
- Integrated laser pointer
- Trumpet, to focus the sound waves

Free LMS License
When purchasing a S531 ultrasonic leak detector set, one free LMS license is included.

- **Wireless Connection** Wireless connection to headset
- **Mass Storage** Big memory for leak records, photos and voice recording
- **Leak Parts Photo** Camera to take photo of leak locations
- **Data Analysis** Export data to LMS for statistics and repair
- **Loss Calculation** Air loss calculation in m³/h or in local currency

Leak Management Software

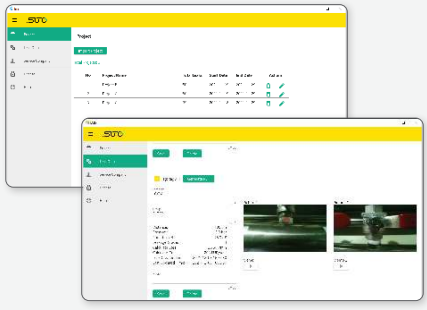
LMS Local Installation



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. The software comes as a local installation on a PC.

LMS + S531
The LMS works seamlessly with the S531 Ultrasonic Leak Detector. Recording leaks in the field using the S531 and later importing them to LMS software enables users to gather quantitative leak loss data and easily create powerful reports.



- **Simple Interaction Design** Quick and intuitive operation steps
- **Local Installation** Easy installation and local data storage
- **Personalized Configuration** Company logo, contact person etc.
- **Extensive Analysis Report** Leak report with all relevant data
- **One-Click Import and Update** Import and update new leak data

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)

Application
Measures the actual flow and total consumption of various liquids
- Cooling / Heating / Process Water
- Purified Water Measurement
- Fuel, Oils, Petroleum Products
- Water Treatment
- Food / Beverage
- Sanitary
- Hydraulic System Test
- Pharmaceutical Industry

Multiple Locations

- **Non-Invasive** Through clamp-on sensors
- **Smartphone App** Easy configuration
- **Energy Meter** Monitors heat exchangers
- **Easy installation** Various installation options
- **Data Logger** 8 million samples
- **Compact Design** Can be installed anywhere

Compact Ultrasonic Flow Meter for Liquids

S462 Clamp-On

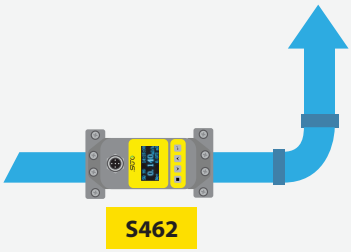
Installation
Clamp-On
for pipe sizes of DN20 ... DN40

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

Multiple Locations



- **Clamp On** No contact to medium
- **TTC** Transit Time Correlation Technology
- **Compact Design** Can be installed anywhere
- **Cost-efficient** Affordable sensor solution
- **Portable** Connectable to S551
- **Stationary** Connectable to S330/S331

Vortex Flow Meter for Steam

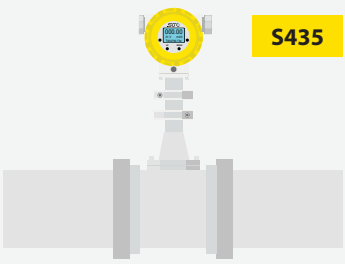
S435 In-Line

Installation
Wafer type
for pipe sizes of 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.

Steam Pipes



- **Easy Monitoring** Effective and inexpensive measurements
- **Local Display** For easy configuration and live values
- **Accurate Results** Vortex flow measurement
- **Total Flow** High accuracy and reliable measurements
- **Temperature Sensor** Automatic density adjustment

Displays / Datalogger and IIoT

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

- **Easy to Use** User-friendly design
- **USB Interface** Configuration with S4C software
- **Alarm** Optional alarm settings
- **Power Supply** Flexible power supply
- **Easy installation** Wall or panel mountable
- **Signal Inputs** Digital and analog input

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.).

Data Logging

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
- 2 Alarm relay outputs

- **IIoT Support** Connection to S4M software
- **Versatile Connection** 16 sensors inputs
- **Data Distribution** Via Modbus/RTU & Modbus/TCP
- **Touch Screen** 5" large color LCD
- **Strong Protection** IP65 Casing
- **Data Logger** 100 million values

Portable Display and Data Logger

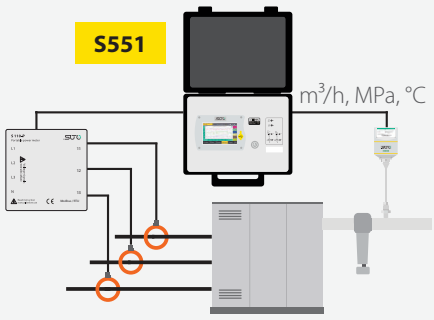
S551 Portable

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).

Multiple Locations



- **Auto Detect** SDI or Modbus SUTO sensors
- **Versatile Connection** 20 sensors inputs
- **4G/LTE Modem** Remote monitoring and logging (optional)
- **Touch Screen** 5" large color LCD
- **Strong Protection** IP65 Casing
- **Back-Up Power** Battery as back-up power

Monitoring and Application Software and Apps

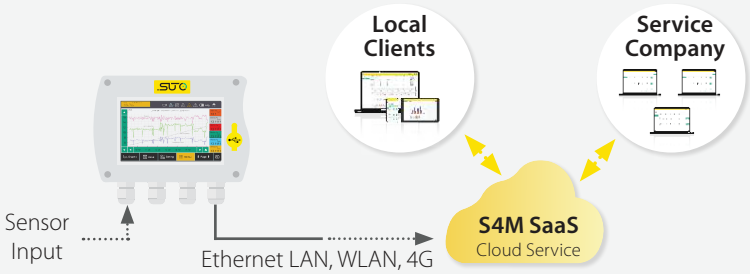
Smart Compressed Air System Monitoring Software

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

Monitoring, Visualization and Analysis



- **Process Value Visualization**
- **Extensive Data Analysis**
- **Customer Management**
- **Alarms & Notifications**
- **Monitoring & Optimization**
- **Powerful Report Module**
- **Personalized Interface**
- **Location Management**

Data Analysis Software

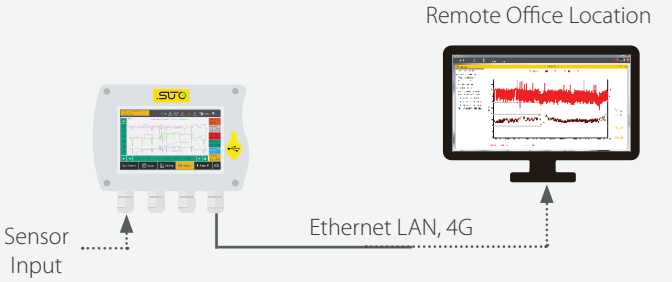
S4A Local

Download

The S4A Software is offered for free and the latest version can be downloaded from the SUTO homepage, no registration or subscription needed.

www.suto-itec.com

Data Visualization and Analysis



- **Graphic Analysis** Powerful graphic analysis
- **Analysis on Exported Files** Export data to the .XLSX and .CSV file
- **Free to use** No payment or subscription needed
- **Readout of Screenshots** Read screenshots from SUTO S331
- **Online Reading** Via USB, Ethernet or WLAN connection

Free Mobile Apps

S4C-FS Gas Flow

S4C-DP Dew Point

S4C-US Liquid Flow

Smartphone Applications

Applications

- SUTO Smartphone Apps are completely free to use
- Wireless real-time data readings of SUTO Flow Meters trough S4C-FS App
- User friendly design with intuitive workflows
- Everything runs from your smartphone
- Online configuration, settings and user calibrations of compatible SUTO devices

Signal Outputs

- Wireless connection to SUTO Sensors for on-site readings and configuration
- No PC needed

- **Free Smartphone Apps** For remote Configuration
- **Easy to Use** User-friendly design
- **Online Reading** Live measurement data
- **Wireless Connection** Connection to devices in hard-to-reach places

Current Meter, other Sensors and Calibration Service

Power Meter

S110	Stationary
S110-P	Portable

Installation

DIN rail installation for power cabinets or portable version with rugged housing

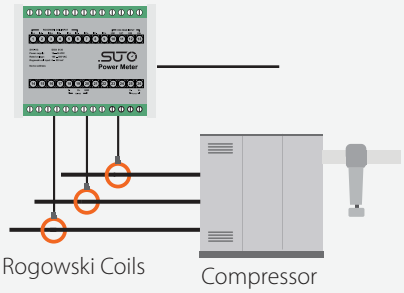
Signal Outputs

- 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.

Generation



- **Multi-functional** 3-phase, 1-phase
- **Modbus / RTU Interface** Connects to any Modbus-Master
- **Easy Installation** User-friendly design and setup
- **Compressor Performance** Identifying compressor efficiency
- **Rogowski Coils** Wide range, highly accurate

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

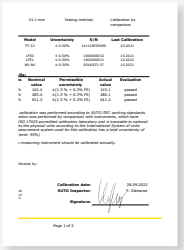
Industrial equipment for manifold applications

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

- **Industrial Design** For various applications
- **4 ... 20 mA Output** Easy connection
- **Easy Installation** User-friendly and compact design
- **Cost-efficient** Affordable sensor solutions
- **Strong Protection** IP65 Casing

Calibration and Certification

Flow	Calibration
Dew Point	Calibration
Oil Vapor	Calibration



SUTO Calibration

- SUTO owned 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

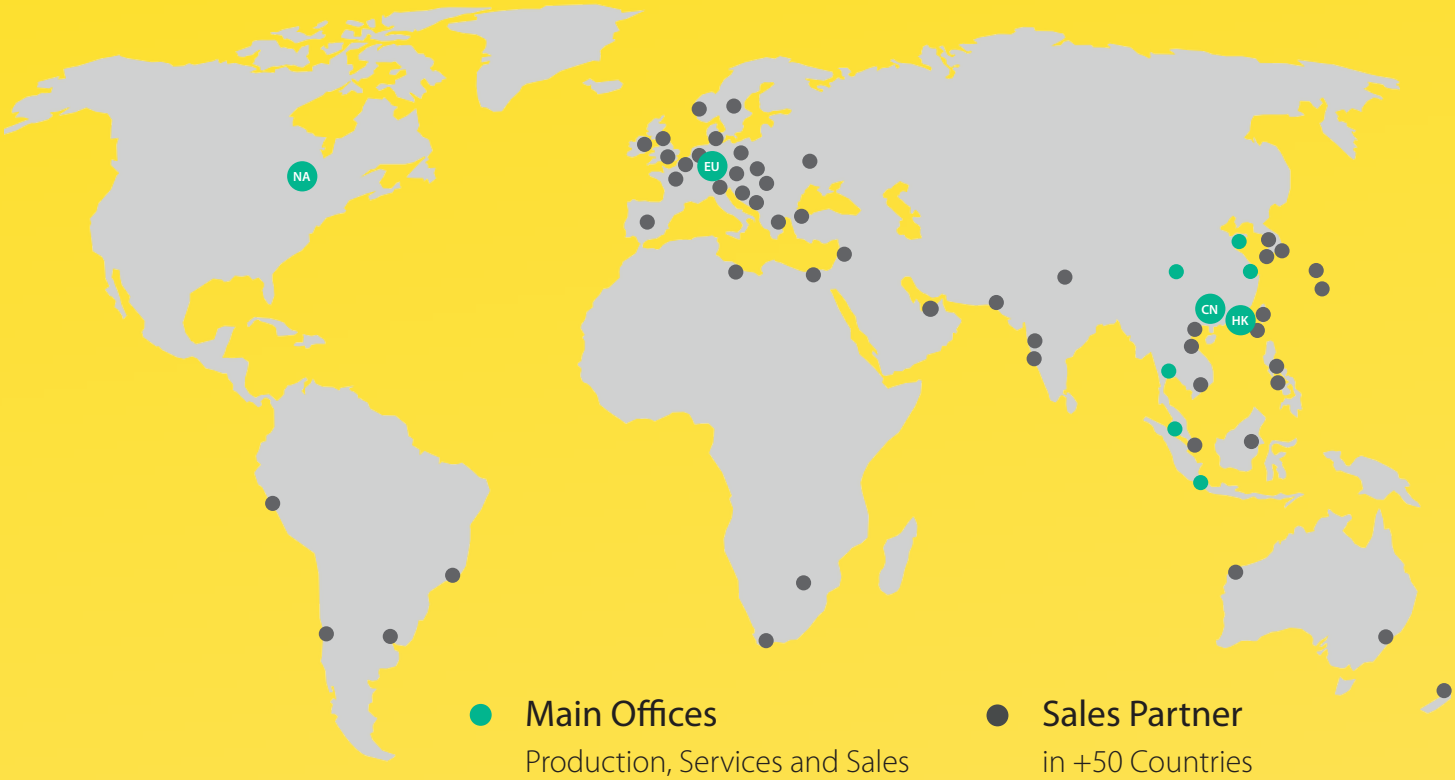
The exchange calibration service eliminates down time and enables users to have a seamless record of their measurements.

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.

- **Flow Calibration**
- **Dew Point Calibration**
- **Oil Vapor Calibration**
- **Particle Calibration**
- **Pressure Calibration**
- **Temperature Calibration**

www.suto-itec.com

Be smart. **Measure it.**



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