S4M SaaS

.SUTƟ
Be smart. **Measure it.**

Smart Compressed Air System Monitoring Software

Coming Soon!

Next Level of Compressed Air System (CAS) Monitoring Software Service

PROCESS VALUE VISUALIZATION

CUSTOMER MANAGEMENT

LIVE VIEW OF PROCESS DATA

POWERFUL REPORTING MODULE

EXTENSIVE DATA ANALYSIS

MONITORING & OPTIMIZATION

ALARMS & NOTIFICATIONS

PERSONALIZED INTERFACE

Benefits

- ✓ Ensure system performance and reliability with remote monitoring and alarm management
- ✓ Save energy and reduce CO2 emissions by identifying system efficiency potential
- ✓ Live monitoring of air production, consumption and historical records for detailed system overview
- ✓ Minimise initial CapEx through rapid development and deployment
- ✓ Easy-to-use plug-and-play solution for rapid deployment of gateways and devices
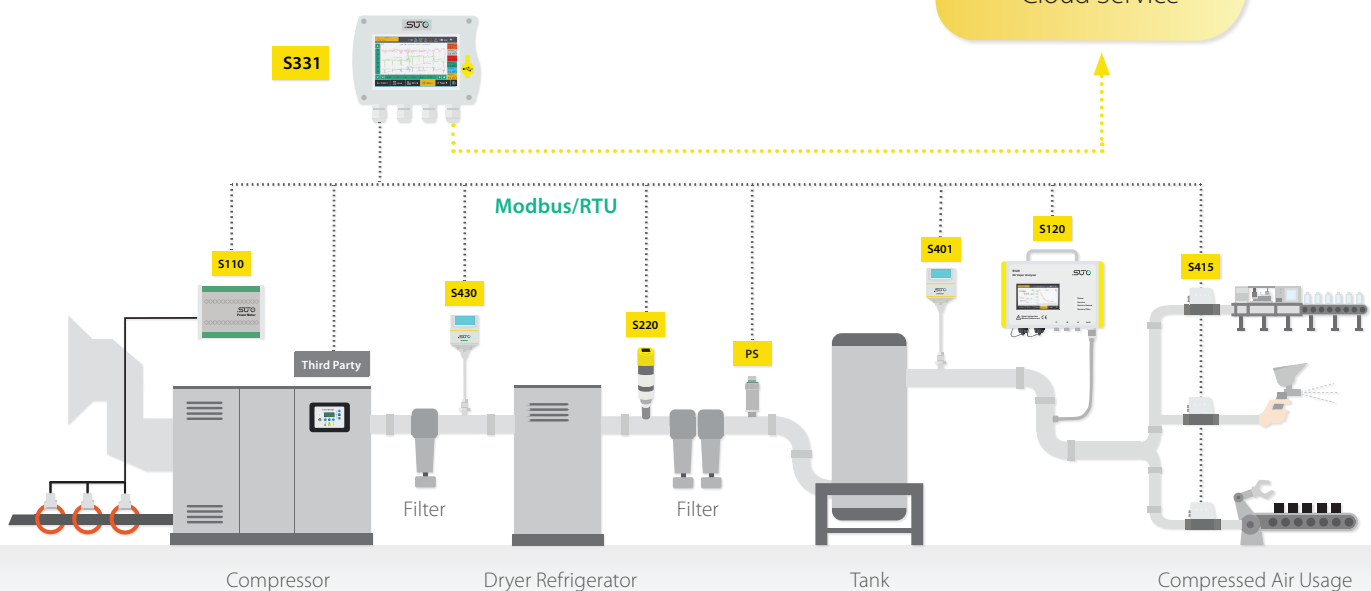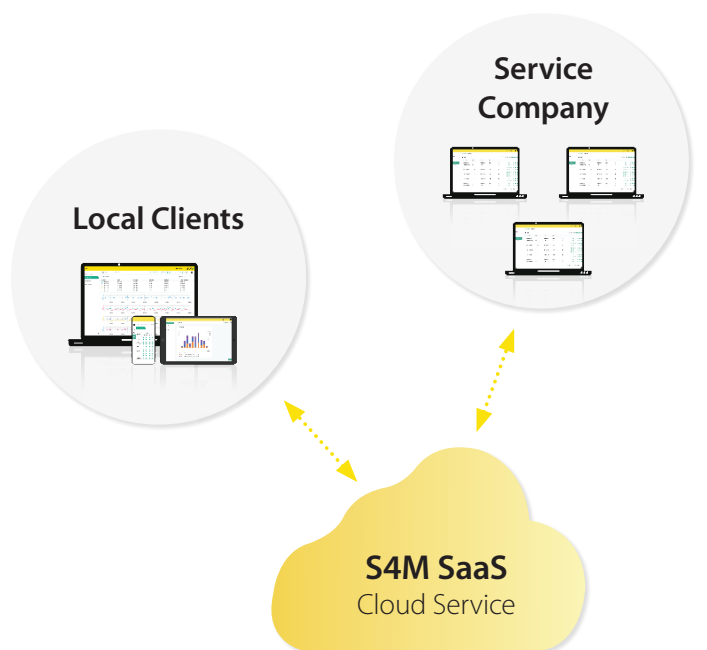- ✓ Automatic generation of customised CAS reports for audits

Manage and ensure your whole compressed air system —
Reduce downtime and costs

S4M SaaS has been developed from the ground up with a focus on compressed air system monitoring and optimisation.

The software enables end users to take control of their CAS, ensuring process safety and reliability of their compressed air system. At the same time, the software enables compressed air service companies to keep their customers' systems up and running by simply checking the end customer's CAS from anywhere, at any time.

S4M SaaS not only collects measurement data from field devices, but with its built-in features, S4M SaaS actually takes care of the whole system, from asset management, alarms, calibration & maintenance to consumption and energy reporting, all in one solution.

With S4M SaaS, end users and service companies can finally take control of their compressed air systems.

Service Company

Local Clients

S4M SaaS
Cloud Service

S331

Modbus/RTU

S110

Third Party

S430

S220

PS

S401

S120

S415

Filter

Filter

Compressor

Dryer Refrigerator

Tank

Compressed Air Usage

Smart Compressed Air System Monitoring Software

Customizable Dashboard

- Dashboard for system overview and monitoring
- Real-Time data and graphical analysis from the dashboard
- Dashboard fully customizable to users needs with dashboard widgets
- Quick analyzes directly from the dashboard
- Alarm and status indication
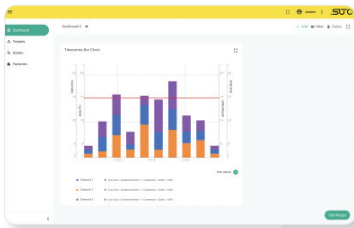
Powerful Data Analysis

- Analyze all channels and parameters within a single module
- Compare historical data with actual data
- Benchmark your system and define KPIs
- Easily find weak spots and optimization potentials at a single glance

Live View of Process Data

- Real-time measurement data of multiple factories and locations
- Live view of all measurement channels
- Drag & drop marker to place measurement data
- Upload system / factory plan to place your measurement device
- Alarm indications and notifications

S4M SaaS
Cloud Service
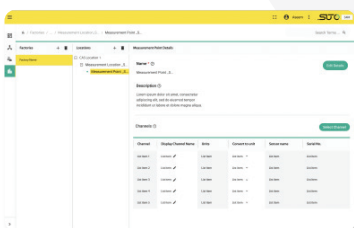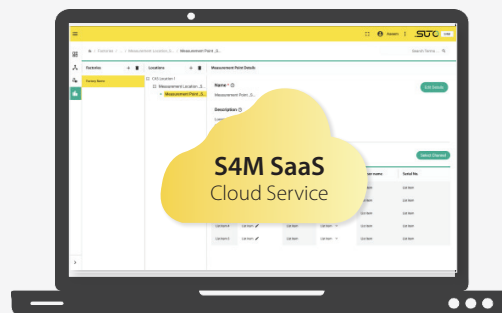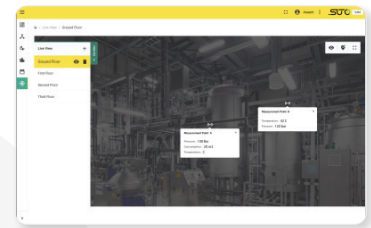
Location Management

- Logical and easy to understand complex structures of field devices
- Define factories, measurement locations and measuring Points
- Assign factories to different customers
- Convert Measurement units and set up virtual channels
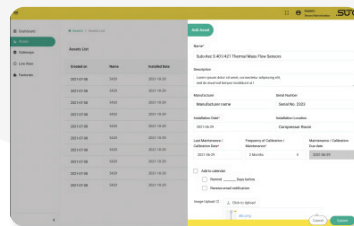
Asset Management

- Track all components of the CAS in a single solution
- Create maintenance and calibration schedules and get notified in time
- Set up regular tasks on your CAS
- Track sensitive equipment by serial number & get notifications
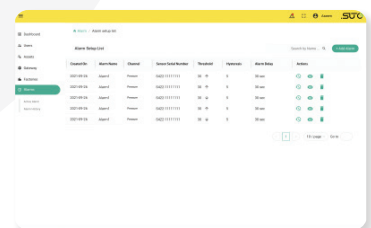
Alarm Management

- System wide alarm management with full alarm history
- Active alarms list with mute functions during maintenance or repairs
- Assign alarms to any channel within the system
- Multiple on-screen alarm notifications as well as email and push notifications on smartphones

Smart Compressed Air System Monitoring Software

Powerful User Access Right Management

- Easy to set up check-box based access-rights management
- Most flexible user rights: Read-only accounts, default user accounts, multiple administrators
- Access rights management for each module
- Create private dashboards, alarms, analytics to be seen only by the specific user
- Set up multiple accounts and distribute their access rights
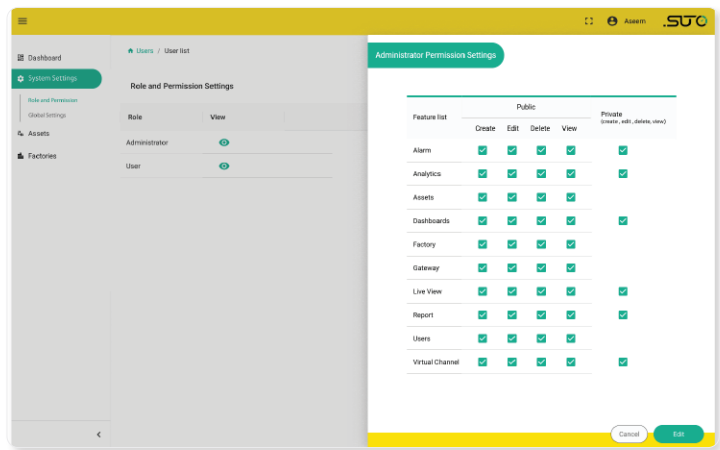
Create Powerful Reports

- Create powerful reports with a single Click
- Regular reporting with suggestions
- Energy cost and consumption reports
- Get reports sent automatically daily, monthly, weekly, quarterly or annually by Email
- Customize report colors and logos
- No more manual reporting needed so user can focus on more important things
- Set up management users to receive automatic financial reporting

Why Data Is So Important?

Compressed air is one of the most expensive energy forms and widely used in almost any application and process. Almost 50 % of the compressed air and gases that is generated is not used efficiently.

Profound real-time system data will help to unleash optimization potentials:

- System Performance and Reliability
- Energy Efficiency and Cost Reduction
- Product Quality and Safety
- ISO Purity Requirements
- Carbon Footprint Reduction
- Less Maintenance and System Failures

Data Analysis

S4M SaaS
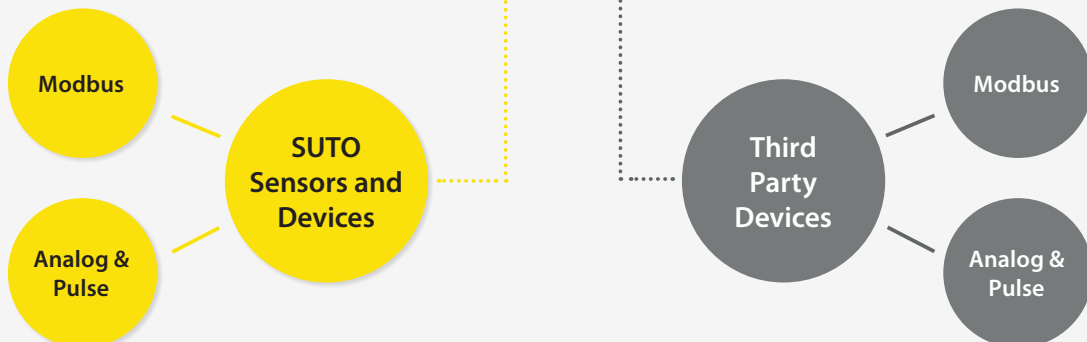Cloud Service

Data Logging

S331 Data Logger and Display

Plug & Play gateway and central interface between field devices and S4M SaaS monitoring solution.

Connect up to 16 Modbus/RTU sensors, 2 analog sensors and 2 SDI sensors to a single data logger

Field Devices

Modbus

SUTO Sensors and Devices

Analog & Pulse

Third Party Devices

Modbus

Analog & Pulse

SUTO SDI and Modbus/RTU sensors as well as analogue sensors can be connected to the S4M SaaS within minutes. To properly connect the Modbus/RTU sensors to an RS 485 bus system, it's recommended to daisy-chain the sensors to one of the inputs. For this purpose, SUTO offers an RS 485 splitter to simplify the connection.

In this way, users can connect up to 16 sensors to the S331 master input. This makes it possible to monitor entire plants with the S4M SaaS using a single data logger.

Using the industry standard Modbus/RTU protocol, third party sensors and devices can be easily integrated into the S4M SaaS via the S331 Data Logger Gateway. Field devices can be easily set up using the configuration software, allowing a third-party sensor to be added in seconds.

Of course, all connected sensor data can be logged in the internal memory and used for virtual channel calculations. At the same time, real-time values are sent to S4M SaaS and stored securely.

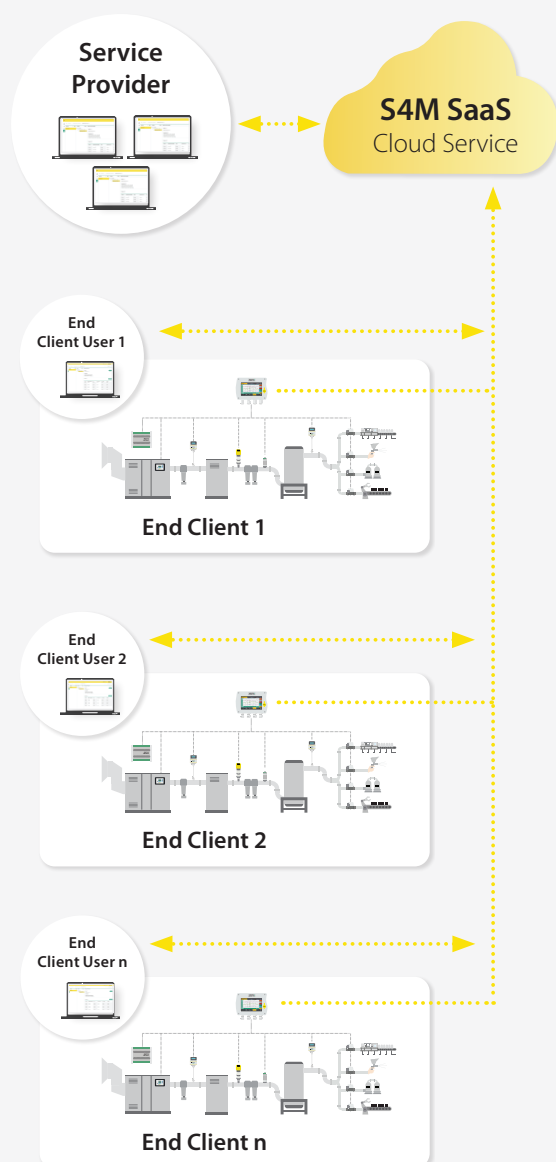# User and Access

End User License

The end user licence is designed for compressed air system operators and facility management.

This licence provides access to the company's compressed air system throughout the plant and across multiple sites. The system can be accessed by multiple users within the same organisation.

User 1

User 2

User n

S4M SaaS
Cloud Service

Factory A

Factory B
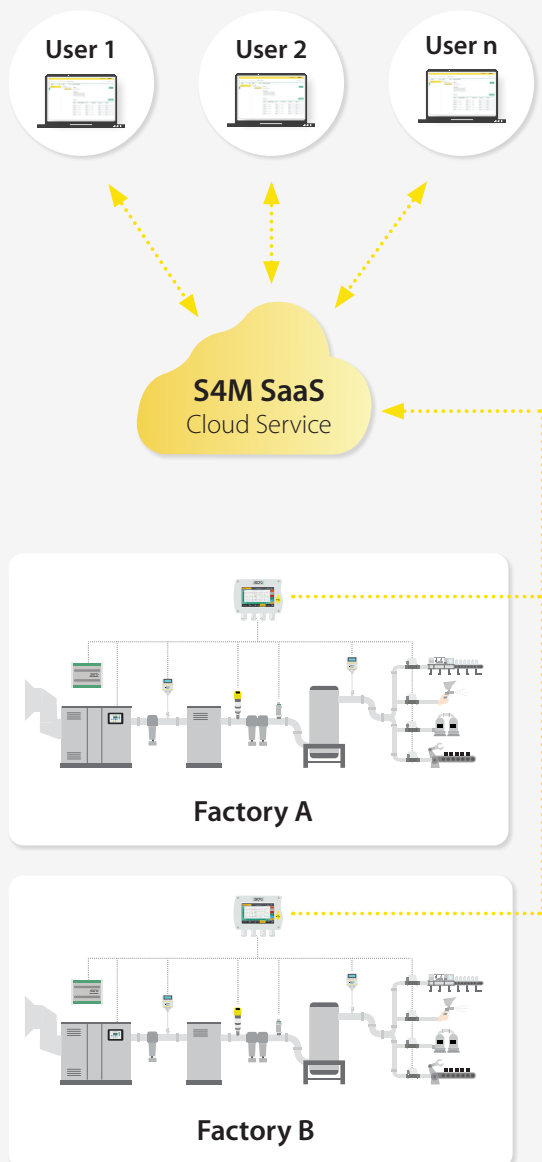
Service Provider License

The Service Provider licence is designed for compressed air service companies that offer their services to customers. Service companies are able to monitor their customers' compressed air systems anywhere in the world.

Each client is isolated and the service provider is able to give the end users access to their own system.

Service Provider

S4M SaaS
Cloud Service

End Client User 1

End Client 1

End Client User 2

End Client 2

End Client User n

End Client n

License Packs

	Trial	Starter	Essentials	Team	Enterprise
License Type	End User	End User	End User	Service Provider	Service Provider
User	1	1	5	10	100
Number of Channels	5	20	50	100	500
Add Additional Channels	❌	✅	✅	✅	✅
Add Additional Users	❌	✅	✅	✅	✅
License	Free (For 90 Days)	Annual Subscription	Annual Subscription	Annual Subscription	Annual Subscription

Contact Us

Please contact our sales to assist you finding the license type which suits your requirements.

EUROPE
📞 +49 (0) 7634 50488-00
✉ sales@suto-itec.com

CHINA
📞 +86 (0) 755 8619 3164
✉ sales.cn@suto-itec.com

ASIA/PACIFIC
📞 +852 2328 9782
✉ sales.asia@suto-itec.com

NORTH AMERICA
📞 +1 (616) 800-7886
✉ sales.us@suto-itec.com

Explanations

User

A user is a login that has access to the system and its full functionality. User access rights can be controlled and set individually by the Administrator.

One of the users is always the administrator with all access rights.

Channels

Each measurement is represented as a channel.

Example: 1 flow meter (flow and consumption = 2 channels) + 1 dew point meter (dew point, temperature and humidity = 3 channels) gives a total of 5 channels.

Virtual channels created are displayed as one channel and are part of the total number of channels available.

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