



Easy configuration with dip-switches



Temperature, Humidity, Dew Point, Atmospheric Pressure, Air Quality



Activating the digital output according to the measured parameter values



Faster configuration thanks to the user interface program



High insulation level



RS485 Interface



Klemsan®

SAS Sensors

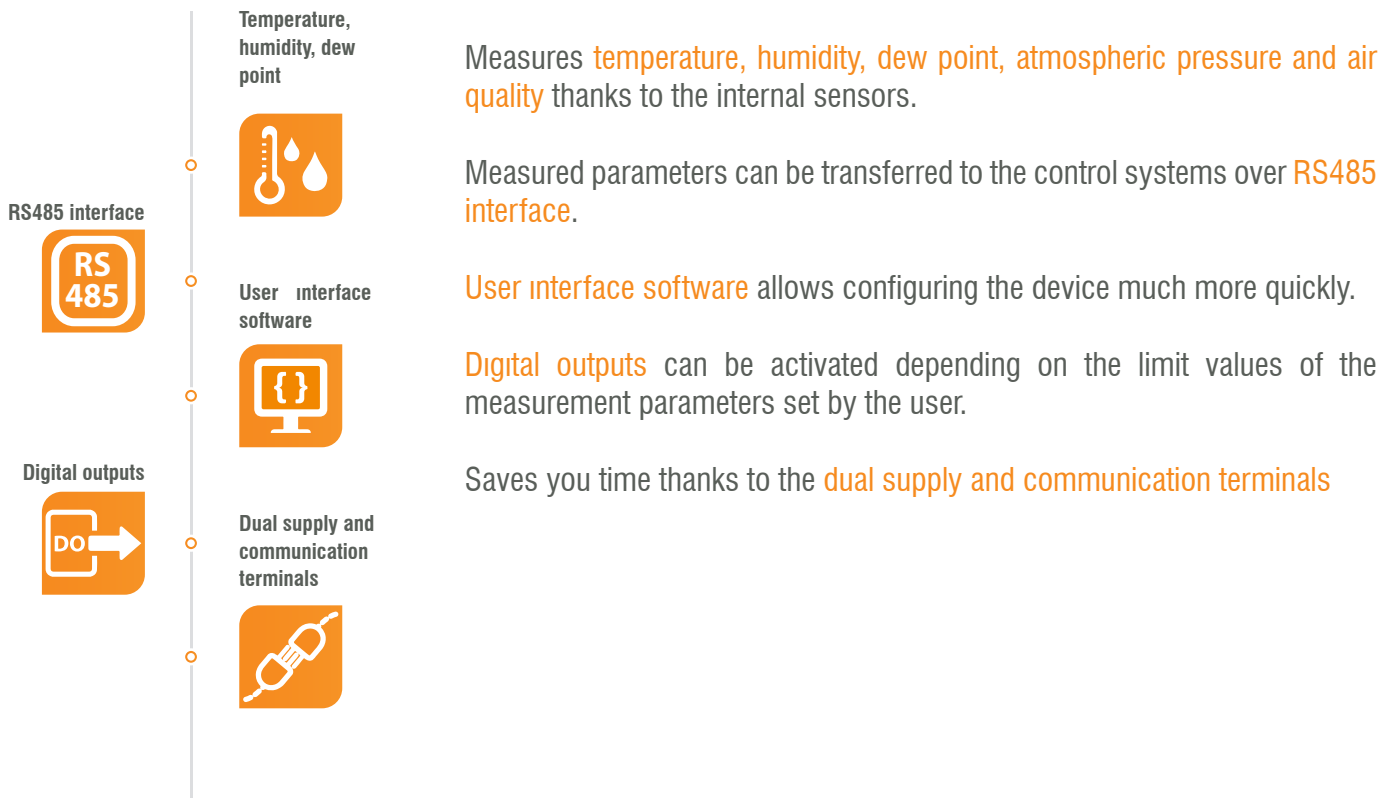
SAS sensors are ambient sensors that measure ambient temperature, humidity, dew point, atmospheric pressure and air quality. With these sensors, the values such as temperature, humidity, pressure in the environment can be transferred to the control systems via the **RS485 (MODBUS RTU)** interface. There are two different devices.

SAS TH: Temperature, Humidity, Dew Point **SAS IAQ:** Atmospheric Pressure, Air Quality, Dew Point, Humidity, Temperature

The device configured via MODBUS and **user interface software** activates its digital outputs depending on the limits assigned to the measured parameters. In this way, an alarm management system can be created. **The dual supply and communication terminals** on the device make it easy to connect the sensors in series. **Thanks to the dip switches on the sensors**, the parameters required for communication can be easily adjusted.

- User interface software
- Temperature, Humidity, Dew Point, Atmospheric Pressure and Air Quality
- Easy configuration with dip-switches
- Activates its digital outputs depending on the limits assigned to the measured parameters.
- RS485 (MODBUS RTU) interface
- Dual supply and communication terminals.

Which actions are executed?



Which market are they used frequently?

- *Energy Efficiency Applications*
- *Air Quality Applications*
- *Cold Storage*
- *Local Control Applications*

Benefits and Advantages

- *Fast configuration with user interface software*
- *Measurement up to 5 different parameters without external sensor connection*
- *Easy connection with dual supply and communication terminals*
- *Creating alarm management with digital outputs*
- *3750VRMS insulation*
- *Communication configuration with dip-switches*

Energy Efficiency Applications



SAS



SAS sensors are used in places where energy efficiency is needed, such as factories, buildings, warehouses, museums. Its internal sensors constantly monitor the ambient, providing data to central control systems for the more efficient operation of air conditioners.

Air Quality Applications



SAS



Ambient conditions should be constantly monitored for the health of people in production facilities. In addition to measuring temperature and humidity values in working environments such as offices, SAS-IAQ plays a big role in creating an ambient suitable for employees by constantly monitoring air quality.

Cold Storage



SAS



The temperature measurement is critical for the cold storages. SAS sensors constantly monitors storages in order to remain freshness of the foods.

Local Control Applications



SAS



Thanks to the digital output on the device, it is used in areas required to take action according to the limit values assigned to the measured parameters.

TECHNICAL SPECIFICATIONS

GENERAL	
Operating voltage	5 VDC \pm 10%
Storage temperature	-45°C .. 85°C
Connection type	Wall mount
Digital Output	5...30V DC, 50mA, (Insulation: 3750VRMS)
COMMUNICATION	
Interface	Modbus RTU (RS 485)
Slave ID	1 .. 247
Baud rate	9600, 19200, 38400, 57600
Parity	None, Even
Stop bit	1, 2
SAS-TH TEMPERATURE/HUMIDITY MODBUS TRANSMITTER	
Temp. measurement range	-40°C .. 80°C
Temp. accuracy	\pm 1°C
Dew point range	-40°C .. 80°C
Humidity measurement range	0%rH .. 100%rH
Humidity accuracy	\pm 3.5 % (20%rH- 80%rH)
Response time	15 sec
SAS-IAQ INTERIOR AIR QUALITY MODBUS TRANSMITTER	
Temp. measurement range	-40°C .. 80°C
Temp. accuracy	\pm 0.5°C
Dew point range	-40°C .. 80°C
Humidity measurement range	0%rH .. 100%rH
Humidity accuracy	\pm 3.5 % (20%rH- 80%rH)
Atm. pressure meas. range	300 hPa - 1100 hPa
Atm. pressure meas. accuracy	\pm 0,6hPa
Air quality level range	0 .. 500
Response timeTransmitterTransmitter	10 sn / sec

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Visit our **website** for detailed info !

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