## **S305**



# .SUC Dew Point Monitor

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Opt. 1	-50 +20	°C Td	Dew po Temper	Dint: -7.8 "Clis
Opt. 2	-20 +50	°C Td	(Bask	
				SUC
			© \$ 305	300
			Dew Point Monito	
			.SUO	<b>C E</b> <u>Pmax: 1.5 MPa</u>
			• 🖻	<b>2</b> •
				U U
PL/	UG & AY Iply connect Ir compressed air	DEW PO MEASUR -50 +50 dependin the mode	EMENT	
	ECISE ASUREMENT	ALARM	ION	

With internal relays or alarm units

± 2 °C Td accuracy

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Refrigeration dryers are the most commonly used dryer type in compressed air system around the world. If the required drying is not achieved, the impact of wet air can be serious: Rust in the pipes, failures of machines, and a negative impact on product quality.

SUTO offers with the S305 a measuring device for dew point monitoring that kicks in alarm indications when drying values are not within the desired range.

## 2 Models

-50 ... +20 °C Td and -20 ... +50 °C Td

## Dew Point Sensor

Reliable polymer dew point sensor with integrated measuring chamber for accurate readings and fast response time

#### **Robobust Casing**

The entire measuring unit is integrated together with the display in a rugged housing (IP65)

## 3 Power Supply

100 ... 240 VAC or 24 VDC

## 4 Output

2

4 ... 20 mA output to PLC or SCADA system

## 5 Connection

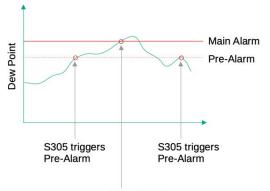
The connection to the compressed air network is via a 6-mm quick connect and corresponding connecting hose.



## Dimensions



## Pre- and Main-Alarm programmable



S305 triggers Main Alarm



Two alarm levels can be programmed (pre and main alarm), serving an optical indications or separate relay outputs.

## **Exchange Service**

#### No Downtime anymore!

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

The user receives in advance a calibrated sensor unit with calibration certificate and the same sensor settings. The onsite sensor is then switched against the calibrated one and returned to the supplier.



#### SUC | Exchange Service

#### Installation

S305 is designed to be Plug & Play. There is no need for complicated setup or configuration. Simply connect your compressed air and start measuring.

## **Optional Alarm Unit**

Wall mounted housing with a big display for dew point, temperature and humidity. The optional alarm unit can be wall mounted or mounted directly on the housing. The 360° visible LED and the alarm buzzer indicate alarms reliably.

## **Technical Data**

#### Measurement

Dew Point	
Accuracy	±2 °C Td
Selectable units	°C, °F
Measuring range	-50 +20 °C Td
(model depending)	-20 +50 °C Td
Sensor	Polymer
Response time t90 (@ 4l/min)	-50 °C Td -> -20 °C Td = 20 sec
	0 °C Td -> -40 °C Td = 120 sec
Temperature	0 °C Td -> -40 °C Td = 120 sec
<b>Temperature</b> Accuracy	0 °C Td -> -40 °C Td = 120 sec 0.3 °C
Accuracy	0.3 °C
Accuracy Measuring range	0.3 °C -30 +70 °C

#### Signal / Interface & Supply

Analog output	
Signal	4 20 mA 3-Wire
Scaling	-50 +20 °C Td or -20 +50 °C Td
Load	250R
Update rate	3 / sec
Supply	
Voltage supply	100 240 VAC ; 50/60 Hz
(model depending)	24 VDC
Current consumption	40 mA @ 220 VAC
(model depending)	120 mA @ 24 VDC

#### **General data**

Configuration	
PC Software	S4C-Display Software
Others	Instrument comes pre-configured Plug & Play
Display	
Integrated	LCD Display, indicates values and alarms
Material	
Process connection	Stainless steel 1.4301 (SUS 304)
Housing	ABS, Aluminium alloy
Sensor	Polymer
Metal parts	Sinter Filter (stainless steel)
Miscellaneous	
Electrical connection	Screw terminals
Protection class	IP65
Approvals	CE
Process connection	6 mm quick connector
Process connection Weight	6 mm quick connector 520 g
	520 g
Weight	520 g
Weight Operating condition	520 g s
Weight Operating condition Medium	520 g s Non-corrosive gases
Weight Operating condition Medium Medium quality	520 g s Non-corrosive gases ISO 8573-1: 4.6.3 or better
Weight Operating condition Medium Medium quality Medium temperature	520 g <b>s</b> Non-corrosive gases ISO 8573-1: 4.6.3 or better -30 +70 °C ≤ 20 °C Td or ≤ 50 °C Td
Weight Operating condition Medium Medium quality Medium temperature Medium humidity	520 g <b>s</b> Non-corrosive gases ISO 8573-1: 4.6.3 or better -30 +70 °C $\leq 20$ °C Td or $\leq 50$ °C Td (model depending)
Weight Operating condition Medium Medium quality Medium temperature Medium humidity Operating pressure	520 g <b>s</b> Non-corrosive gases ISO 8573-1: 4.6.3 or better -30 $+70 \degree$ C $\leq 20 \degree$ C Td or $\leq 50 \degree$ C Td (model depending) 0.3 1.5 MPa
Weight Operating condition Medium Medium quality Medium temperature Medium humidity Operating pressure Ambient temperature	520 g S Non-corrosive gases ISO 8573-1: 4.6.3 or better -30 $+70 \degree$ C $\leq 20 \degree$ C Td or $\leq 50 \degree$ C Td (model depending) 0.3 1.5 MPa -10 $+40 \degree$ C

Stated accuracy under following conditions:

- Ambient temperature 23 °C ±3 °C
- Process temperature 23 °C ±3 °C
- Ambient humidity < 95 %, no condensation
- Airflow > 2 l/min at sensor tip



Please use the following tables to assist in placing your order with our sales staff.

#### S305 Dew Point Monitor (-50 ... +20 °C Td / -20 ... +50 °C Td)

Article No.	Description
KA66D6993050	S305, Dew Point Monitor, -20 +50 °C Td, 6 mm quick connector, 15 bar, 1 x 4 20 mA, 100 240 VAC, 2 relay outputs
KA66D6993051	S305, Dew Point Monitor, -20 +50 °C Td, 6 mm quick connector, 15 bar, 1 x 4 20 mA, 24 VDC, 2 relay outputs
KA66D6993052	S305, Dew Point Monitor, -50 +20 °C Td, 6 mm quick connector, 15 bar, 1 x 4 20 mA, 100 240 VAC, 2 relay outputs
KA66D6993053	S305, Dew Point Monitor, -50 +20 °C Td, 6 mm quick connector, 15 bar, 1 x 4 20 mA, 24 VDC, 2 relay outputs

#### Accessories

Article No.	Description
KA66A5540024	Alarm unit, 100 240 VAC, red light and buzzer alarm, wall mountable (unit is using the relay outputs of S305 to trigger the alarm)
KA66A5540025	Alarm unit, 100 240 VAC, red light and buzzer alarm, mounted at S305 casing (unit is using the relay outputs of S305 to trigger the alarm)
KA66A5530106	Power cable with mains plug, 1.8 m



