S 305 DEW POINT MONITOR (-50 °C ... +50 °C)





Refrigeration dryers are among the dryers in compressed air treatment most commonly used. 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.

CS-ITEC offers with the S 305 a measuring device for dew point monitoring that kicks in alarm indications when drying values are not within the desired range.

The All-In-One dew point monitor serves as a measuring and display device. The connection to the compressed air network is via a 6-mm quick connect and corresponding connecting hose. The entire measuring unit is integrated together with the display in a rugged housing (IP 65) and is available both as a panel variant or as a wall-mounted housing. Two alarm levels can be programmed (pre and main alarm), serving an optical indications or separate relay outputs. The dew point meter allows a simple and inexpensive dew point monitoring.

Stated accuracy under following conditions:

- Ambient temperature 23 °C ± 3 °C
- Process temperature 23 °C ± 3 °C
- Ambient humidity < 95%, no condensation
- Airflow > 1 I/min at sensor tip

Features

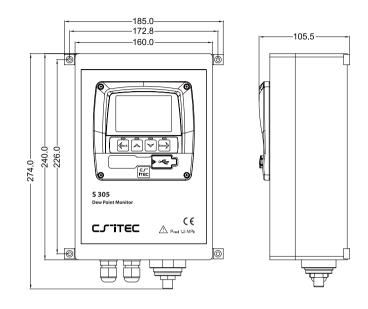
- 2 models: -50 °C ... +20 °C and -20 °C ... +50 °C
- Plug & Play (complete solution)
- Compressed air supply through 6 mm Quick-Connect
- Power supply: 100 ... 240 VAC
- Wall or panel mountable
- Accuracy of 1 °C ... 2 °C
- IP65 casing provides robust protection in rough industrial environment
- 4 ... 20 mA output to PLC or SCADA system
- Pre- and Main-Alarm programmable:
 - Optical: red blinking display
 - 2 relay outputs

Technical data S 30	95
Measuring range	A: -50 °C +20 °C B: -20 °C +50 °C
Accuracy	1 °C 2 °C dew point
Pressure range	-0.1 1.5 MPa
Power supply	100 240 AC / 10 VA
Measured gas	Non-corrosive gases
Ambient conditions	-10 °C +40 °C
Transport temperature	-30 °C +70 °C
Response time t90	< 30 sec (descending), < 10 sec (ascending)
Output signal	4 20 mA 2 relay, 230 VAC / 3 A
Gas connection	6 mm hose quick connector
Cable glands	2 cable glands for supply and signal cable
Casing	Al alloy, ABS
Classification	IP 65
Sensor protection	Stainless steel sinter cap pore size < 30 μm
EMC	According to IEC 61326-1



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Dimensions





Alarm adjustment at dew point sensor

	Order no.	Description
	D699 3050	S 305, dew point monitor, -20 °C +50 °C, 6 mm quick connector, 15 bar, 1 x 4 20 mA, 100 240 VAC, 2 relay outputs
	D699 3051	S 305, dew point monitor, -20 °C +50 °C, 6 mm quick connector, 15 bar, 1 x 4 20 mA, 24 VDC, 2 relay outputs
	D699 3052	S 305, dew point monitor, -50 °C +20 °C, 6 mm quick connector, 15 bar, 1 x 4 20 mA, 100 240 VAC, 2 relay outputs
	D699 3053	S 305, dew point monitor, -50 °C +20 °C, 6 mm quick connector, 15 bar, 1 x 4 20 mA, 24 VDC, 2 relay outputs
	C198 0005	Filter cap, stainless steel, 30 μm pore size
	A554 0024	Alarm unit, red light and buzzer alarm, wall mountable (unit is using the relay outputs of S 305 to trigger the alarm)
	A554 0025	Alarm unit, red light and buzzer alarm, mounted at S 305 casing (unit is using the relay outputs of S 305 to trigger the alarm)