Preventing condensation

Dew point sensor ensures compressed air quality and reduces energy costs

- High-precision dew point measurement down to -20 °C
- Robust design for use in harsh industrial environments
- Easy installation and commissioning thanks to the compact sensor design

IP67

ifm – close to you!

Clean and dry compressed air

Monitoring the pressure dew point is a key process in compressed air lines and tanks to ensure air quality and operational safety. The pressure dew point indicates the temperature at which the water vapour contained in the compressed air condenses – at constant pressure.

Excessive moisture leads to corrosion and potential leaks, shortens system service life and impairs the function of compressed air-powered devices. Dry compressed air is essential for trouble-free processes and compliance with standards, particularly in sensitive areas such as the food and pharmaceutical industries or in precision pneumatic control systems.

Optimised compressed air treatment

The new dew point sensor from ifm makes a decisive contribution to efficient compressed air treatment. It measures the pressure dew point with high precision – the lower this value, the drier the compressed air.

Continuous air quality monitoring enables demand-based control of dryers. This prevents unnecessary "over-drying", saves energy and reduces costs.

The sensor does not directly supply the required air but performs a monitoring function. It ensures that components such as dryers and other system parts operate correctly, and it immediately detects any deviations, enabling the user to take prompt corrective action. Therefore, its primary purpose is quality monitoring, while also indirectly helping to prevent downtime.

Installation and operation

Thanks to its compact design, the sensor can be easily integrated into existing compressed air lines. The robust design with stainless steel housing and IP67 protection rating allows use even in harsh environmental conditions. Via the IO-Link interface, the sensor can be easily integrated into the system control.

Description	Order no.
Dew point sensor	**LDH313**
Fast coupling adapter for pneumatic lines	**E33710**

Technical data		
Measuring range	[°C Td]	-20…20
Display range	[°C Td]	-20…60
Medium temperature	[°C]	-20…60
Pressure rating	[bar]	50
Output signals		IO-Link, 1x 4...20 mA
Accuracy	[°C Td]	± 2
Process connection		G½
Protection rating		IP67

BEST FRIENDS

SD compressed air meter
Measures flow, consumption, pressure and temperature

PQC pressure sensor
Monitors system pressure in pneumatic and compressed air systems

Location of leaks
Handheld device for the location of smallest compressed air leaks

For further technical details, please visit: ifm.com/fs/LDH313