

Series DS2



Series DS2

The Aventics DS2 Pressure Dew Point Sensor is a highly reliable and precise instrument designed to measure the dew point temperature in compressed air systems. This sensor plays a crucial role in ensuring the air quality within pneumatic systems by detecting the moisture content. By providing accurate and real-time data, the DS2 helps in preventing moisture-related issues such as corrosion, freezing, and malfunctioning of equipment. Its compact design and easy integration into existing systems make it an ideal choice for maintaining optimal performance and longevity of pneumatic components. The Aventics DS2 is essential for applications requiring stringent air quality standards, helping to enhance overall system efficiency and product quality.

- Stainless steel housing
- Ideal for all types of compressed air dryers with different measuring ranges such as -80...+20°Ctd or -20...+50°Ctd
- Condensation-resistant sensor element
- Long-term stability and drift-resistant
- Gas-independent measurement, also suitable for other, non-corrosive gases
- Fast adjustment time, especially in the event of moisture ingress
- Protection class IP66
- IO-Link output and Modbus RTU (RS 485) interface
- Measured values available in various units, pressure dew point [°Ctd], temperature [°C], rel. humidity [%rh], abs. humidity [g/m³], degree of humidity [g/kg], moisture content V/V [ppmV/V], water vapor partial pressure [hPa], atmospheric dew point [°Ctd.atm]



Product overview

DS2 Pressure Dew Point Sensor

	Page
Series DS2 Pressure Dew Point Sensor.....	4
Socket - -20 ... +50 °Ctd	
Series DS2 Pressure Dew Point Sensor.....	7
Socket - -80 ... +20 °Ctd	

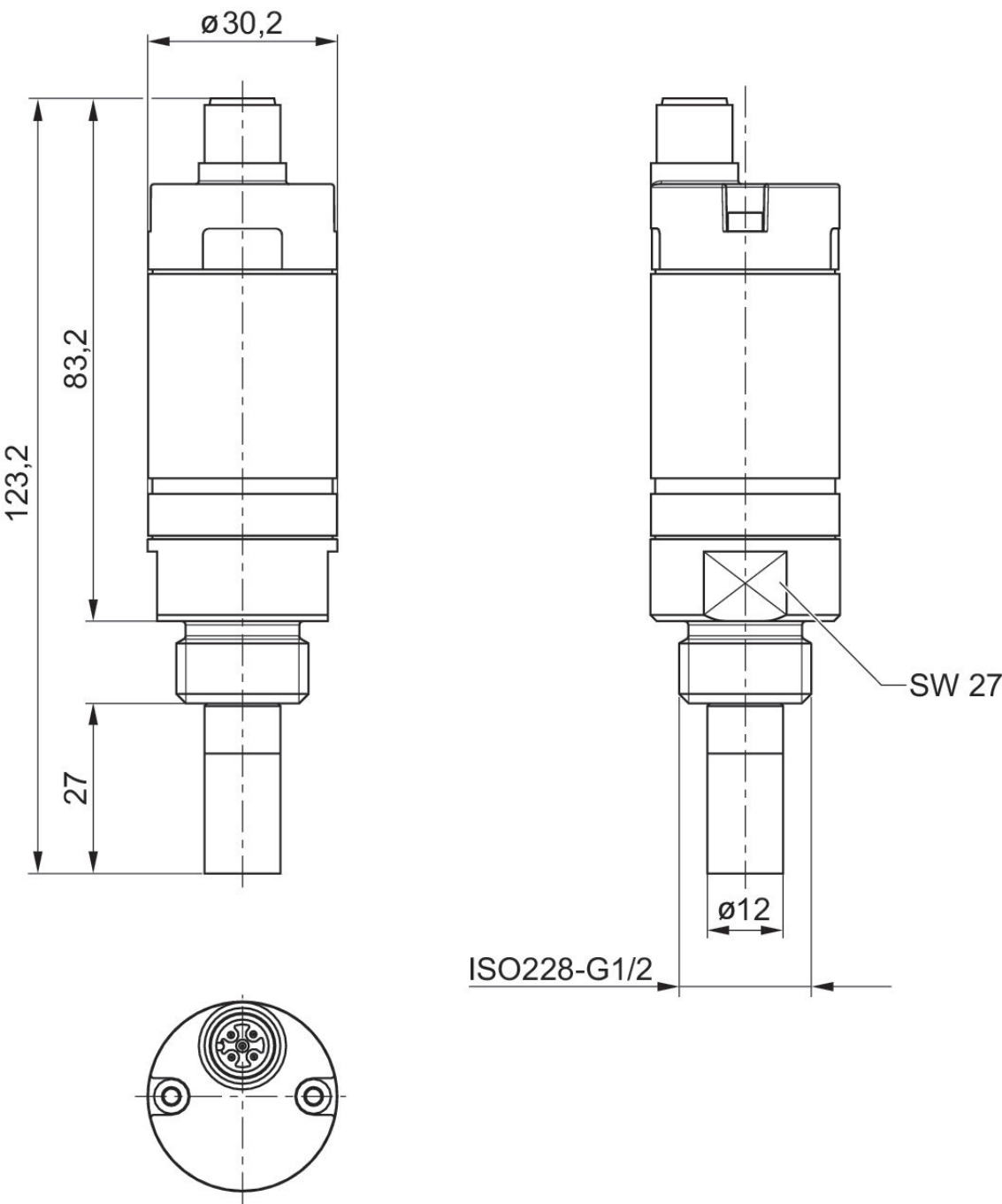
Series DS2 Pressure Dew Point Sensor

Electrical connection 2, thread size: M12
Certificates: EMV in according with DIN EN 61326-1, UL (Underwriters Laboratories)
Electr. connection: 5-pin
Ambient temperature min./max.: -40 °C ... 80 °C
Medium temperature min./max.: -20 °C ... 70 °C
Working pressure min./max.: -1 bar ... 50 bar



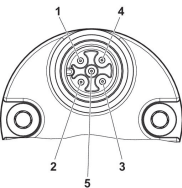
Measure- ment range	Part No.
-20 ... +50 °Ctd	R412029179

Dimensions



R412029179

Pin assignments



Pin	Allocation
1	+VB
2	RS 485 (A)
3	-VB (GND)
4	IO-Link COM 2 1.1
5	RS 485 (B)

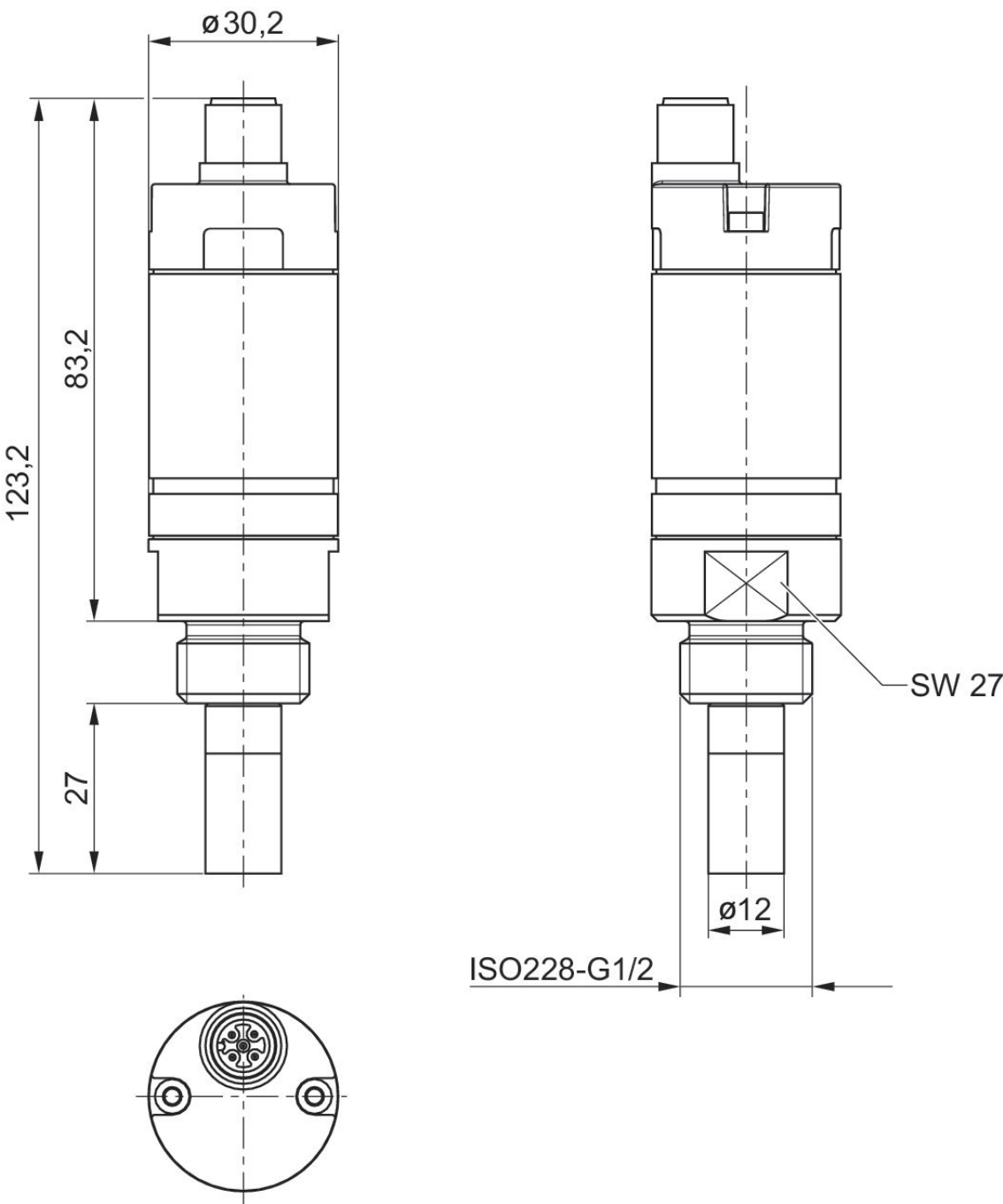
Series DS2 Pressure Dew Point Sensor

Electrical connection 2, thread size: M12
Certificates: EMV in according with DIN EN 61326-1, UL (Underwriters Laboratories)
Electr. connection: 5-pin
Ambient temperature min./max.: -40 °C ... 80 °C
Medium temperature min./max.: -20 °C ... 70 °C
Working pressure min./max.: -1 bar ... 50 bar



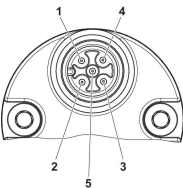
Measure- ment range	Part No.
-80 ... +20 °Ctd	R412029180

Dimensions



R412029180

Pin assignments



Pin	Allocation
1	+VB
2	RS 485 (A)
3	-VB (GND)
4	IO-Link COM 2 1.1
5	RS 485 (B)

Efficient pneumatic solutions, our program:
cylinders and drives, valves and valve systems,
air supply management, proportional pressure
control valves



Visit us: www.Emerson.com/aventics
Your local contact: Emerson.com/contactus

-  Emerson.com
-  Facebook.com/EmersonAutomationSolutions
-  LinkedIn.com/company/Emerson-Automation-Solutions
-  Twitter.com/EMR_Automation



The Emerson logo is a trademark and service mark of Emerson Electric Co. AVENTICS is a registered trademark of one of the Emerson family of companies. All other trademarks are the property of their respective owners. © 2020 Emerson Electric Co. All rights reserved.



CONSIDER IT SOLVED®