

# Smart Sensor For Temperature and Humidity



014202-00

## Applications

The compact Smart Sensor electronically measures temperature and humidity and converts measured data into a standardized analog 4 to 20 mA signal or an IO-Link protocol signal. The converted value signals can be used and processed by a control monitoring unit, e.g., a PLC control (*IO-Link devices require an IO-Link Master to communicate with a PLC*). The Smart Sensor is suitable for use in a wide variety of applications and can be used even in harsh environmental conditions, such as wind power.

## Features

- Analog/I/O-Link digital interface
- Compact size
- DIN rail and/or screw mount
- High accuracy
- Quick connection (M12 plug-in connector)
- Wide temperature and humidity range
- Various application areas (IEC 61010-1/DIN EN 61010-1)

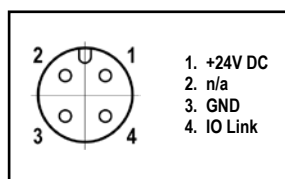
## Listings

- UL Recognized File E500143

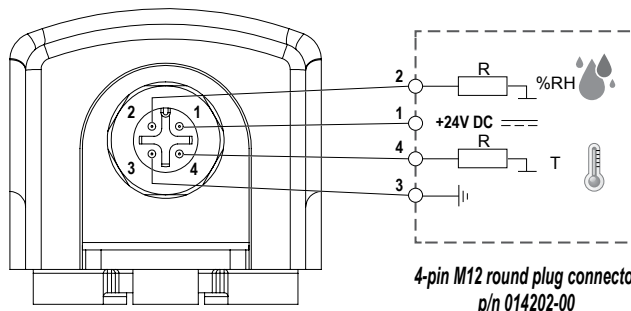


Smart Sensors			
Part Number	Price	Output	Drawing Link
<a href="#">014202-00</a>	\$157.00	4-20 mA, 2 channel	<a href="#">PDF</a>
<a href="#">014112-00</a>	\$157.00	I/O-Link	<a href="#">PDF</a>

General Specifications	
<b>Operating Voltage</b>	24 VDC
<b>Temperature Measuring Range</b>	-40 to 140°F [-40 to 60°C] ±1 K tolerance
<b>Humidity Measuring Range</b>	0 to 100 % RH ±4 % RH tolerance
<b>Max. Reaction Time</b>	3 minutes.
<b>Load Resistance (External)</b>	≤ 500 Ω
<b>Max. Power Consumption</b>	1.8 W (typically 0.4 W)
<b>Connection</b>	M12 round plug connector, IEC 61076-2-101, 4-pin, A-coded, shielded
<b>Electrical Protection</b>	Reverse-polarity, short circuit, overvoltage protection
<b>Mounting</b>	Clip for 35mm DIN rail, EN 60715 and screw mount (M5, not included)
<b>Housing</b>	Plastic, UL94 V-0, light gray
<b>Dimensions</b>	5.5 x 1.6 x 1.5 in [140 x 40 x 38 mm]
<b>Weight</b>	Approx. 1.8 oz. [50g]
<b>Mounting Position</b>	Vertical (connection on top)
<b>Operating Temperature</b>	-40 to 158°F [-40 to 70°C]
<b>Storage Temperature</b>	-40 to 185°F [-40 to 85°C]
<b>Operating / Storage Humidity</b>	Max. 90% RH (non-condensing)
<b>Protection Class</b>	III (SELV)
<b>Protection Type</b>	IP20
<b>Approvals</b>	EAC, CE, VDE, UL File Recognized File E500143), (acc. to IEC 61010-1 / DIN EN 61010-1)



4-pin M12 round plug connector  
p/n 014112-00



4-pin M12 round plug connector  
p/n 014202-00