Smart Sensor For Temperature and Humidity





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





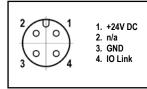




Smart Sensors				
Part Number	Price	Output	Drawing Link	
014202-00	\$157.00	4-20 mA, 2 channel	PDF	
014112-00	\$157.00	I/O-Link	PDF	

014202-00

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

