SMART SENSOR CLIMATE ANALOGUE

CSS 014 | 01420.2-00



The smart sensor measures temperature and air humidity and transmits analogue signals. The converted measured values are passed on as a standardised analogue 4 - 20 mA signal. Control and monitoring units for industrial systems and machines are the recipients of the smart sensor's data.

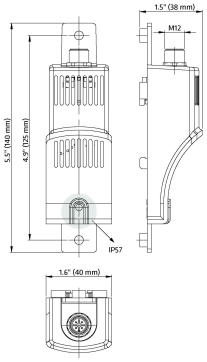
- Analogue interface
- Quick connection: M12 male connector
- High measurement range and accuracy
- Compact dimensions
- Easy to attach: Clip or screw fixing

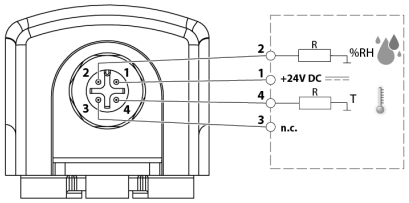
OVERVIEW TECHNICAL DATA

Device type	Analogue products
Measurement signal	Temperature, air humidity
Electrical protection	Reverse polarity protection, short-circuit proof, overvoltage protection
Protection class	III
Protection type	IP20
Casing	Plastic to UL94 V-0, light grey
AC/DC	DC
Operating voltage	24 V
Power consumption	1.8 W (typically 0.4 W) W
Measurement range	-40 °C - 60 °C
Measurement range tolerance	± 1 K
Measurement range 2	0 % RH - 100 % RH
Measurement range tolerance 2	± 4 % RH
Load resistance external	≤ 500 Ω
Reaction time	1: t60 <195 s / 2: t60 <14 s
Operating temperature	-40 °C - 70 °C
Operating humidity	≤90 % RH
Storage humidity	≤90 % RH
Storage temperature	-40 °C - 85 °C
Connection	M12 round plug, IEC 61076-2-101, 4-pin, A-coded, shielded
Design	4 - 20 mA
Mounting	Clip for 35 mm DIN rail, EN 60715 and M5 screw fixing
Height	140 mm
Width	40 mm
Depth	38 mm

Weight	50 g
Note	Tolerance from 20 to 80% rH/ tolerance from +5 to +60°C (please request diagram to view tolerances outside these ranges). The circuit board is painted on both sides with a certified protective lacquer to protect against condensation and thus corrosion and to increase creepage resistance.

TECHNICAL DRAWINGS





Pin assignment for 4-pin
M12 round plug connector