A unique capacitive sensor element is used for measuring relative humidity while temperature is measured by a band-gap sensor. The applied CMOSens<sup>®</sup> technology guarantees excellent reliability and long term stability. The sensor is seamlessly coupled to a 14-bit analog-to-digital converter and a serial interface circuit. This results in superior signal quality, a fast response time and insensitivity to external disturbances (EMC). Each sensor is individually calibrated in a precision humidity chamber. The calibration coefficients are programmed into an OTP memory on the chip. These coefficients are used to internally calibrate the signals from the sensors.

## SPECIFICATION

Accuracy, Temp	± 0.3°C
Accuracy, Humidity	± 1.8%RH
Supply Current, Measuring	0.55mA (typical), 1mA (max)
Supply Current, Average	28µA (typical)
Operating Temperature	-40 to 123.8°C
Body Material	ABS
Dimensions (mm HxWxD)	40.00 x 65.46 x 60.46
IP Rating	65

## For connection to C2i EnCompass

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## **Connection Details**

## Ethernet TCP/IP 8 Pin RJ45 Cat5e/Cat6

(White/Orange) Pin 1: Thermistor (T5+)

(Orange) Pin 2: Thermistor (T5-)

(White/Blue) Pin 3: 1. (SCK)

(Blue) Pin 4: 2. (VDD)

(Green) Pin 5: 3. (GND)

(White/Green) Pin 6: 4. (DATA)

(White/Brown) Pin 7: Not Used

(Brown) Pin 8: Not Used



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