

# Tracker M8 Temperature/Humidity<sup>(001)</sup>



The M8 Temperature/Humidity sensor provides an easy way to measure temperature and humidity with the Tracker One. It connects to the M8 connector on the outside of the Tracker One.

- IP 67 waterproof rating
- Durable, weatherproof, metal casing
- $\pm 0.5^{\circ}\text{C}$  temperature accuracy
- $\pm 2\%$  relative humidity accuracy
- Temperature range  $-22^{\circ}\text{C}$  to  $80^{\circ}\text{C}$
- 120 cm. (47.25 inch) cable
- The Tracker One preserves its IP67 waterproof rating with the M8 connector in use

## DETAILS

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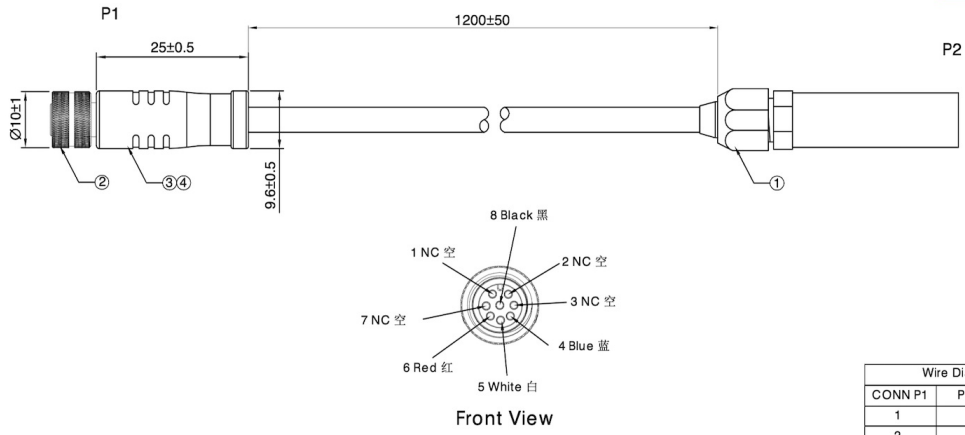
The sensor (in the metal case) is a weatherproof [Sensiron SHT-31D](#), I2C temperature and humidity sensor.

The sensor is powered by the CAN\_PWR output on the M8 connector. It can be powered down when not sensing temperature to reduce power consumption, if desired.

The cable assembly contains a 3.3V voltage regulator, as the I2C interface on the Tracker One is limited to 3.3V.

## DIAGRAM

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CONN P1	P1 COLOR
1	NC
2	NC
3	NC
4	(SDA) Blue 藍
5	(SCL) White 白
6	(VCC) Red 紅
7	NC
8	(GND) Black 黑

Bill Of Material

No.	Vendor	NAME	Material Name and Name	Unit	Qty
3	CXQS123	Molding	Outer Over Moulding BLACK 85A TPU	g	
2	CXQS142	CONN.	M8, 8 Pin, Female, Connector	PCS	1
1	CXQS061	CONN.	T118 SOIL TEMPERATURE AND HUMIDITY SENSOR CONTAINS WIRE	PCS	1

FIRMWARE LIBRARY

The [Particle sht3x-i2c library](#) can be used to communicate with this sensor from user firmware.

- I2C address: 0x44
- I2C maximum speed: 400 MHz
- Tracker One interface: `Wire3`

The [M8 Temperature/Humidity Sensor Tutorial](#) includes additional information for using the library and this sensor.

ORDERING INFORMATION

SKU	Description
M8TEMPHUMIEA	M8 Temperature and humidity sensor, (x1)
M8TEMPHUMITY	M8 Temperature and humidity sensor, (x40)

## Revision history

<b>Revision</b>	<b>Date</b>	<b>Author</b>	<b>Comments</b>
001	2021 Mar 01	RK	First release