# Tracker M8 Temperature/Humidity(001)



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
- ±0.5°C temperature accuracy
- ±2% relative humidity accuracy
- Temperature range -22°C to 80°C
- 120 cm. (47.25 inch) cable
- The Tracker One preserves its IP67 waterproof rating with the M8 connector in use

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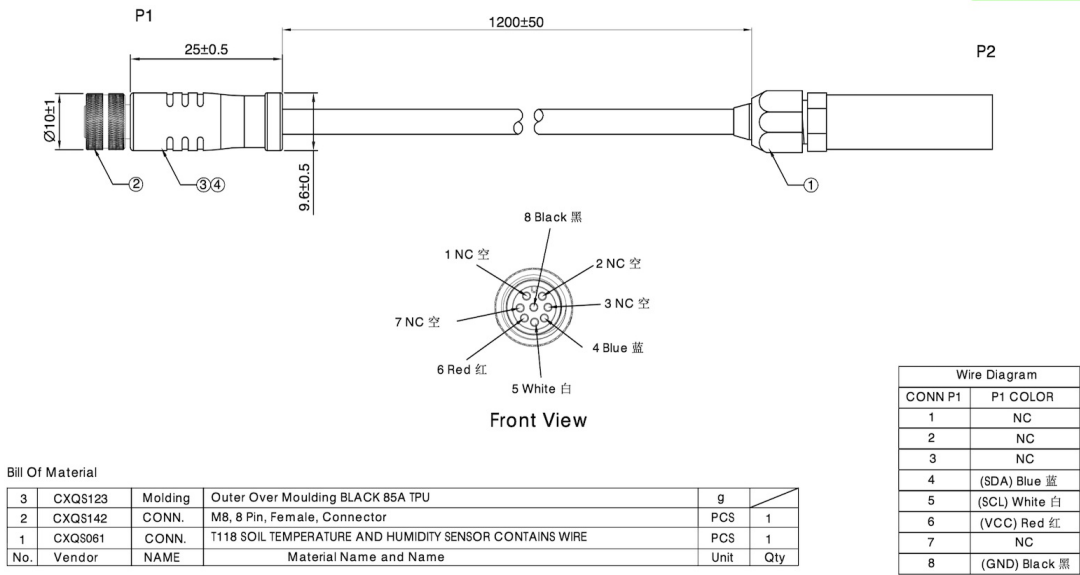
The sensor (in the metal case) is a weatherproof Sensiron SHT-31D, I2C temperature and humidity sensor.

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**

P1

25±0.5

1200±50

P2

Ø10±1

9.6±0.5

② ③④

①

8 Black 黑

1 NC 空

2 NC 空

3 NC 空

7 NC 空

4 Blue 蓝

6 Red 红

5 White 白

**Front View**

Bill Of Material

| 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 |
| No. | Vendor | NAME | Material Name and Name | | Unit | Qty |

| Wire Diagram | |
| --- | --- |
| CONN P1 | P1 COLOR |
| 1 | NC |
| 2 | NC |
| 3 | NC |
| 4 | (SDA) Blue 蓝 |
| 5 | (SCL) White 白 |
| 6 | (VCC) Red 红 |
| 7 | NC |
| 8 | (GND) Black 黑 |

**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

| Revision | Date | Author | Comments |
|---|---|---|---|
| 001 | 2021 Mar 01 | RK | First release |