

PROFESSIONAL PROBE TEMPERATURE & HUMIDITY SENSOR

T-One

BLE 5.1

IP67 BLE 5.1 wireless sensor with an external temperature probe (T-one) or temperature & humidity probe (T-one PN:02). Works with TOPFLYtech trackers.



Key features

-  Temperature monitoring
-  Humidity monitoring (PN:02)
-  Compact size
-  Easy installation (glue, screws, zip tie)
-  BLE 5.1 – range up to 200 m
-  IP67 waterproof
-  TFT Eddystone, Eddystone UID, Beacon

Battery life (25 °C)

10 s, TX 0 dBm		1800 days
10 s, TX 4 dBm		1650 days
5 s, TX 0 dBm, temp. on		1450 days
5 s, TX 4 dBm, temp. on		1200 days

Cold reduces battery capacity – place only the probe in the cold area and keep the sensor body outside it.

 **WEIGHT**
59 g (with probe)

 **DIMENSIONS**
59.9 × 40.0 × 14.6 mm

 **PROBE RANGE**
-40 °C ~ +125 / 130 °C

 **BATTERY**
CR2477 (1000 mAh)

Applications



Technical specifications

General	
Model name	T-one / T-one PN:02
Waterproofing	IP67
Dimensions	59.9 × 40.0 × 14.6 mm (2.36" × 1.57" × 0.57")
Weight	59 g (2.40 oz) with battery, cable and probe 36 g (1.50 oz) without probe
Battery	Non-replaceable CR2477 (1000 mAh)
Operating / storage temperature	Housing: -30 °C ~ +80 °C (-22 °F ~ 176 °F) Probe T-one: -40 °C ~ +125 °C (-40 °F ~ 257 °F) Probe T-one PN:02: -40 °C ~ +130 °C (-40 °F ~ 266 °F)
Probe length	T-one: 100 cm cable + 5 cm probe T-one PN:02: 200 cm cable + 5 cm probe (500 / 1000 / 1500 cm cable optional)
Temperature accuracy – T-one	±0.7 °C (-40...-25 °C), ±0.5 °C (-25...0 °C), ±0.3 °C (0...35 °C), ±0.1 °C (35...45 °C), ±0.3 °C (45...90 °C), ±0.7 °C (90...125 °C); drift < 0.02 °C/year
Temperature accuracy – PN:02	±0.3 °C (-40...90 °C), ±0.7 °C (90...130 °C); drift < 0.03 °C/year
Humidity accuracy – PN:02	±5% RH (0-10% RH), ±3% RH (10-90% RH), ±5% RH (90-100% RH); drift < 0.25% RH/year
Power output (default)	4 dBm, 10 s broadcast
Transmission range	Up to 200 m (656 ft) (open field, 4 dBm, BLE 5.1)
Battery life (25 °C)	
Interval 10 s, TX 0 dBm	1800 days (temperature default off)
Interval 10 s, TX 4 dBm	1650 days (temperature default off)
Interval 5 s, TX 0 dBm	1450 days (temperature on)
Interval 5 s, TX 4 dBm	1200 days (temperature on)
Protocol compatibility and others	
TFT Eddystone	Yes (default)
Eddystone UID	Yes
Beacon	Yes
Power on	Front light sensor
Installation	Polyurethane glue, screws, cable zip tie
Compatibility	All TOPFLYtech trackers with BLE