

METEOTRACKER WEATHER STATION



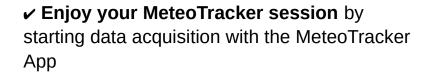
USER MANUAL

Apply to MeteoTracker and MeteoTracker X models

Quick guide

- ✓ Press the button here to active the BT advertising. The corresponding green led will. blink. In the MeteoTracker X model, the ADV stay on until a second button-press is done.
- ✓ Place the weather station on the car rooftop or externally on other vehicles (see installation guidelines at page 2)





✓ Visualize your sessions in the "My sessions" list of the MeteoTracker App or go to MeteoTracker the dashboard visualize all the data you collected to http://app.meteotracker.com/#!/en.





FOR DETAILS SEE THE FOLLOWING PAGES 🔷 🧆





Installation

The mini-station is provided with a 3-magnet base for installation on ferromagnetic surface, like the car rooftop.

Guideline:

✓ place the mini-station so that the air flow enters the two openings in front of the device. Keep the frontal openings

perpendicular to the air flow

✓ make sure that both sensors are equally exposed to the sun radiation





SAFETY

Make sure that the surface where the mini-station is installed:

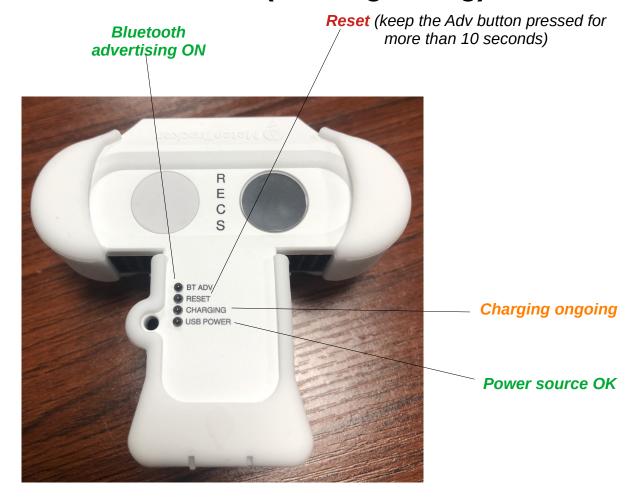
- -is made of ferromagnetic material
- -is flat and clean
- -no ice or snow is present
- -no obstacle or object is present that may reduce the magnetic strength of the 3 magnets placed in the ministation base
- -if all of the above conditions are not met to not or if for other reasons the installation is not safe do not use the mini-station while the vehicle is moving.

In case of snowfall and/or freezing rain the abrupt decrease of the friction coefficient may cause wide slip of the device, that may led to its detachment. If such a condition is encountered, the device must be ensured through a wire passing through the hole located in the left side of the device (close to the 4 led).





Device status (LED signalling)



Battery charging

- ✓ Open the USB-C port in the rear of the device
- ✓ Attach the battery charger through a USB-C cable
- ✓ Charging LED will switch-on
- ✓ When charging is completed, the charging LED will switch-off (charging duration: 2-3 hours)





Technical specifications and features (1/2)

75 mm

1 sample per second (HW sampling). Acquisition timing set through the MeteoTracker App

CONNECTIVITY

- · Bluetooth Low Energy
- · Cellular by smartphone (Smartphone version)
- · Cellular by cellular module (Standalone version)

POWER AND INSTALLATION

- · Battery life: 250+ hours (rechargeable, 200 mAh)
- Cellular module (standalone version only) power:USB-C plug-in to vehicle power source
- · Installation: magnetic base

MEASURED PARAMETERS [MeteoTracker X value]

✓ Temperature

- · ° C or °F
- accuracy: +/- 0.2° C [0,1° C] (typ, sensors) | +/- 0.5° C [0.4° C] (under solar radiation with speed > 7 km/h --> patented Radiaton Error Correction System RECS)
- real-time, maximum, minimum and average values of the session
- operative range: -40° C (-40° F) [-55° C (-67° F)] +125° C (257° F)
- measurement speed: 15° C variation over a 30 seconds time interval at 20 km/h

✓ Relative Humidity

- · Accuracy: +/- 3% [1%] [(typ)
- · real-time, maximum, minimum and average values of the session
- operative range: from 0% to 100%

✓ Pressure

- · Accuracy: +/- 0.03 HPa (relative) | +/-50 Pa (absolute)
- · real-time, maximum, minimum and average values of the session

✓ Dew-point temperature

real-time, maximum, minimum and average values of the session

✓ Altitude above sea level - QNH

- · accuracy: +/- 10 m
- real-time, maximum, minimum and average values of the session

✓ Vertical thermal gradient

- real-time, maximum, minimum and average (RMS) values of the session
- · algorithm based on detected path slope

✓ Solar Radiation Intensity Indicator

real-time, maximum, minimum and average values of the session



Technical specifications and features (2/2)

APP (Android e iOS – smartphone version)

- ✓ real-time visualization on map, graphs and numeric format
- ✔ Archived sessions visualization on map, graphs and numeric format
- Sessions statistics
- ✓ MeteoPhoto

Dashboard (smartphone and standalone version)

- ✓ real-time visualization on map, graphs and numeric format
- ✔ Archived sessions, on map, graphs and numeric format
- Sessions statistics

Data export and integration on third party platform (smartphone and standalone version) from dashboard and App (Android)

- ✓ CSV format
- ✓ APIs

├ CERTIFICATION

- · CE (ID: HTT202111418) and FCC (ID:2A6AH-MT01)
- · IP grade: water-resistant

References

- www.meteotracker.com
- facebook.com/meteotracker
- www.linkedin.com/showcase/meteotracker
- email: meteotracker@meteotracker.com
- www.youtube.com/channel/UCioWABj-yL-FeRkACVpjTmQ/videos