meteomatics

METEOBASE

Remote-controlled drone station

The Home of Our Meteodrones

There are two types of Meteodrones: Mobile and Meteobase-based. Mobile Meteodrones are operated on-site by a drone pilot. In contrast, Meteobase-based Meteodrones are controlled remotely by a pilot who can be located many kilometers away. This remote operation is particularly beneficial for regular operations at the same site.

When paired with the Meteobase, the Meteodrone functions as an automated measurement unit, just like a weather station, but for the vertical profile of the atmosphere.

Empowering 600+ global brands with profitable growth.

The University of Oklahoma

MAGDA

ETH zürich

気象庁
Japan Meteorological Agency

Deutscher Wetterdienst
Wetter und Klima aus einer Hand

cima
RESEARCH FOUNDATION

GRANDSKY
GRAND FORKS COUNTY, ND

THE METEOBASE

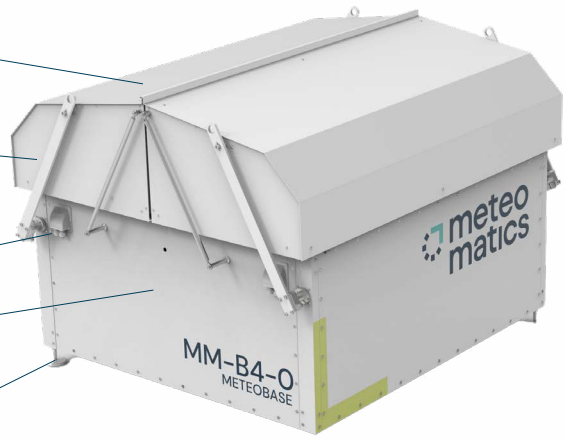
Robust protection against all weather conditions, theft and vandalism

Automated and heated (to melt off snow) wing doors

Protected Electricity Plug-in (230 volts)

Central Electronic Control Unit

Adjustable base feet, adaptable to environment



The Meteomatics Meteobase

As a ground station, it serves as local support for remote Meteodrone operations.

- Monitor and log weather parameters at the deployment site.
- Autonomously launch and land a Meteodrone.
- Serves as a charging station for the Meteodrone.
- Offers real-time visual oversight of the drone's immediate surroundings thanks to strategically positioned cameras.
- Maintains an internal climate control system, incorporating heating and air conditioning, to uphold optimal environmental conditions for the Meteodrone, its electrical components and batteries.
- Withstands various weather conditions, being both waterproof and snowproof.

When paired with the Meteobase, the Meteodrone functions as an automated measurement unit, just like a weather station, but for the vertical profile of the atmosphere.

Product attribute	Specification
Ventilation and air condition	Ventilation system (fresh air) Cooling system / Air-conditioning Heating system including heated opening flaps
Weather Protection	Protection against heavy rain, heat, hail, snow, and ice
Further Protection	Protection against theft and vandalism Robust protection against any external impacts
Measures	2 x 1.6 meter (closed) 2 x 3 meter (open) 1.6 meter height
Weight	350 kg
Power Connection	A regular electricity connection is required
Power Consumption	Base load 63 W Full load 1.2 kW
Control System	Remote control from the operational control center (no distance limit) No on-site monitoring required
Communications Systems	Radio communication between Meteobase and Meteodrones Internet communication between Meteobase and operational control center

Talk to our experts

Brad Guay
Meteorologist & Meteodrone Specialist

Matthias Piot
Senior Meteorologist & Client Manager

Dr. Martin Fengler
CEO & Founder

www.meteomatics.com | Meteomatics AG Unterstrasse 12, 9000 St.Gallen | sales@meteomatics.com