

High mobility – high precision

/ INTEGRATED METEOROLOGICAL SYSTEMS



VAISALA

Comprehensive turnkey solutions

Field-proven weather observation systems that can be moved and deployed quickly are the answer to your mobility challenge. Transportability by air from depot to operation area is a must.

Our customized, turnkey solutions provide everything you need – from design and installation to training and life-cycle services. And if you prefer, we can also work closely with local subcontractors and partners.

In response to your specific requirements, we can integrate our radiosounding or surface weather observing system – including all necessary auxiliary devices and accessories – in a vehicle cabin, towed shelter, or sea container.

The experience and technology leader

Vaisala is a well-known and respected name in the defense meteorological sector. For decades we have provided weather and hydrometric measurement systems for situational awareness to enable customers like you to create a recognized environmental picture. In other words, we do not merely offer products, we provide the solutions you need based on a comprehensive understanding of technology, environmental measurement, system integration and services.

Solutions that fit your needs

Creating weather and environmental awareness for field operations in remote, data-sparse areas requires local observations. Vaisala's long experience and understanding of the requirements ensure that you get the mobile self-contained measurement system that is exactly right for you.

Depending on your specific needs, system configuration and capabilities may vary greatly. Vaisala offers a flexible range of options, from a fairly simple surface weather station with auxiliary equipment in a shelter, to a versatile system that includes operator

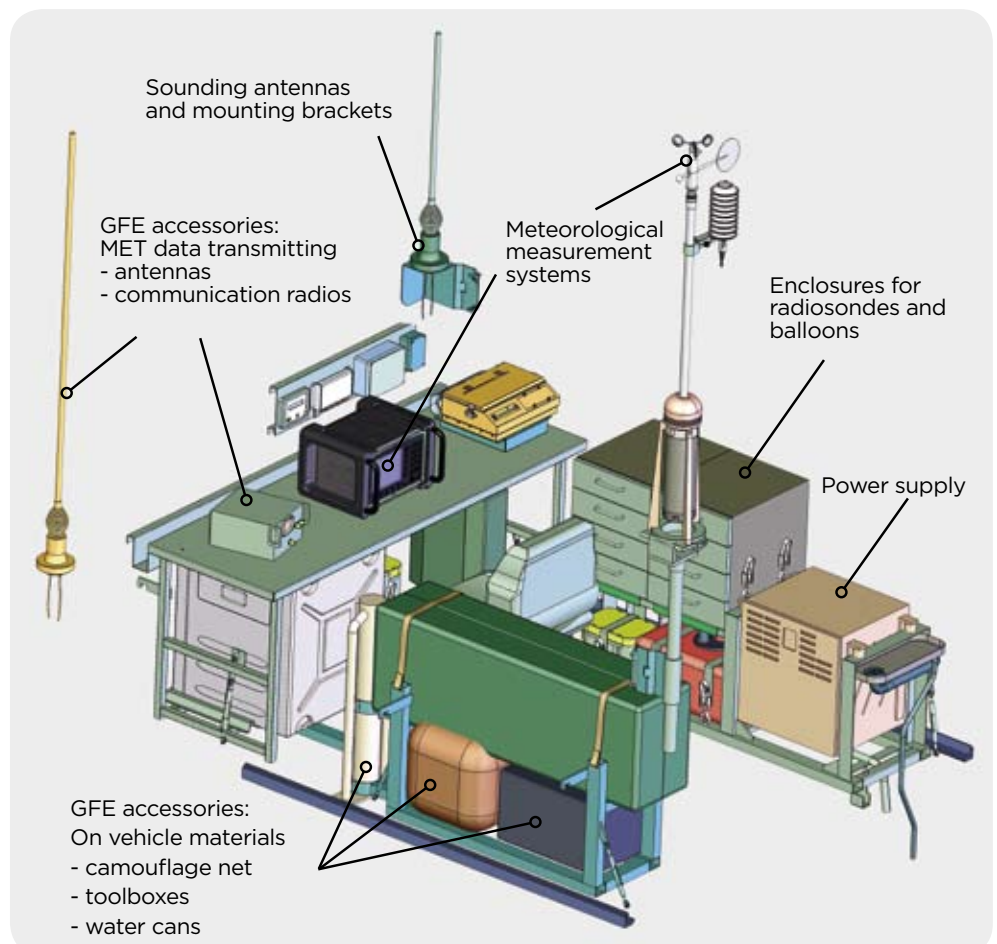
quarters and a high-speed satellite telecommunication system.

Vaisala has decades of experience in furnishing containers and shelters for demanding field use in practically all climate conditions. Our core expertise is in providing turnkey solutions, whether housed in a transportable shelter or custom-installed in the vehicle of your choice.

Autonomous mobile systems

As part of the ORBAT (Order of Battle) of field artillery units, a radiosounding system must be both mobile and self-contained in order to operate over an

Example of a Vaisala integrated radiosounding system in a shelter.
Our solution can be easily rescaled and reconfigured to fit the specific standards of your vehicles and shelters.



extended period of time. This means that the system must incorporate a sufficient supply of lift gas or, alternatively, a hydrogen generator and power supply with a fuel reservoir.

Providing weather support for temporary airfields calls for quick installation of observation instruments. This means that everything, including accessories, needs to be transported together.

Vaisala turnkey integrated systems include transportation and storage boxes for equipment, or appropriate storage holders in shelter or cabin, and a workplace for operators.



Adaptable and responsive to meet your challenges

Vaisala's transportable solutions are designed and built precisely to your specific needs and configurations, including the use of standard sea containers and air transportable cabins. Likewise, our solutions for mobile systems (those mounted on trailers or vehicles) are also highly customizable to your specific situation.



Key components – full-scale mobile radiosounding station:

- Radiosonde receiver system
- Antennas
- Surface observation system
- Balloon inflation gear, with gas vent regulators and counterbalance
- Shelving for gas bottles
- Storage for radiosondes and balloons
- Storage for tools, spare parts and manuals
- Place for communications equipment
- Place for other user-defined equipment
- Power generator
- Fuel tanks
- Heating and air conditioning
- Table and chairs for operators
- Camouflage net



Key components – temporary airfield meteorological system:

- Automatic surface weather observation system located near temporary airfield
- Sensor set for aviation support, including:
 - Winds, at different heights (e.g. 2 m and 10 m)
 - Barometric pressure
 - Temperature and humidity
 - Precipitation
 - Lightning detection sensors
 - Cloud height/coverage
 - Visibility and present weather
 - Wind in approach area
 - Icing/freezing rain
- Portable masts and tripods for sensors
- Power supplies and backup batteries
- Versatile communication alternatives

Note: Our mobile sounding system can be built based on the 400 MHz Marwin system, the 1680 MHz Radiotheodolite, or both.



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For more information, visit
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