

# Sounding System GS-U



Compact, light and mobile sounding system with integrated battery



## Features

- IP65 ingress protection for use in harsh ambient conditions
- Ideal for portable use
- Software defined radio and antenna pre-amplifier for optimal range
- Integrated battery enables an entire sounding without external power supply
- Industry standard USB interface to attached sounding workstation

## Battery powered with rugged pelicase

GS-U is a sounding system for mobile and cost-effective applications. The rugged pelicase houses our proven SDR receiver together with a battery pack which can track an entire sounding without external power supply and can also serve as an uninterruptable power supply.

The GS-U uses a single antenna, which can either be a portable antenna, directly connected to the unit or a detached antenna with separate pre-amplifier. The sounding workstation is connected to the sounding system via USB and can be configured flexibly: from a customer supplied PC to a highly ruggedized mobile workstation.



## Key specifications

<b>Compatibility</b>	All Graw radiosondes
<b>Sounding Workstation</b>	Windows PC connected via USB running grawMet software
<b>Radio Receiver</b>	400-406 MHz, Software Defined Radio, portable or detached antenna
<b>Power Supply</b>	Internal battery backup and external DC connection
<b>Enclosure</b>	Small and robust pelicase with IP65 ingress protection

## As easy as possible

The GS-U has exactly one job: to make your application as easy as possible. Thanks to the no-frills design and the mobile enclosure, it is one of the easiest sounding systems on the market to set up. Furthermore, it integrates the transport enclosure and uninterruptable power supply into a single unit, which reduces setup effort.

A portable antenna can support missions in the lower portions of the atmosphere as well as payload recovery, while the detached antenna offers the same performance as known from our installation sounding systems GS-E and GS-I.

## Advanced radio receiver

The state-of-the-art SDR receiver provides excellent reception performance combined with a high immunity to in-band and out-of-band interferences. This is shown in the class-leading performance values for rejection, dynamic range and third-order intercept point.

Antenna diversity is ensured by automatic antenna switching, between an omnidirectional antenna for high drift scenarios and a circular antenna for overpasses. Both antennas are equipped with amplifiers, which are remotely powered through the sounding system connection.



## Intuitive grawMet software

The easy-to-use grawMet software sets a new standard in sounding processing. All relevant information can be visualised using various views including tables, graphs and maps.

During the sounding, both freely configurable and WMO standard messages are generated according to the user's wishes. The software, compatible with any standard PC running Microsoft Windows, simplifies the set-up and routine station operations, providing an easy to maintain sounding workstation.

