

Groundstation GS-B



Features and Benefits

- For application in harsh environments (splash-proof groundstation)
- Fully battery powered
- SDR (Software Defined Receiver)
- Antenna switch (antenna diversity)
- Integrated GPS module
- Completely software controlled by GRAWMET
- Shock and water resistant
- Provides all common STANAG and WMO messages
- Easy to operate
- Protection class IP65

Overview

The GS-B is our meteorological groundstation for mobile applications in rough or difficult environments. This robust and splash-proof groundstation has an integrated receiver with antenna diversity and a special back-up battery to enable operation for more than 90 minutes in case of a power failure.

All groundstation hardware is installed in a protective and padded Pelicase. The receiver, antenna switch, power supply units and the back-up battery are all embedded. All connections of the Pelicase are splash-proof.

A Panasonic Toughbook computer, mounted on the upper side of metal plate, is the main processing unit running our GRAWMET meteorological software. GRAWMET processes and presents the data in various graphical and tabular forms and provides all common STANAG and WMO messages.

Meteorological Messages (WMO)

TEMP FM35-XI, TEMP SHIP FM36-XI, PILOT FM32-XI, PILOT SHIP FM33-XI, BUFR 3'09'052 (for TEMP data) and BUFR 3'09'051 (for PILOT data)

Meteorological Messages (Military)

METCM, STANAG 4082 Standard Artillery Computer Meteorological Message

METB2/METB3, STANAG 4061 Standard Ballistic Meteorological Message

METTA, STANAG 4140 Standard Target Acquisition Meteorological Message



Technical Data

Weight	19,5 kg
Size	425 mm x 525 mm x 215 mm
Power supply	AC voltage: 110 V/AC to 240 V/AC DC voltage: 12 V/DC to 32 V/DC
Frequency range	400 – 406 MHz
Connections	2 x 400 MHz antennas 1 x GPS antenna 1 x GPS repeater 2 x USB connection 1 x RSR232 for weather station
Protection class	IP65
TOUGHBOOK	
Operating temperature	-10 ... +50 °C
Operating humidity	30 ... 80 %RH
Storage temperature	-20 ... +60 °C
Storage humidity	30 ... 90 %RH
ANTENNAS	
Operating temperature	-40 ... +60 °C
Operating humidity	0 ... 100 %
Operating wind speed	0 ... 55 m/s
Operating precipitation	Unlimited
Storage humidity	0 ... 100 %RH
CAR ADAPTER	
Operating temperature	-20 ... +40 °C
Storage temperature	-40 ... +85 °C
BATTERY	
Operating temperature	0 ... +45 °C
Supported operating systems	Windows XP, Vista, Windows 7