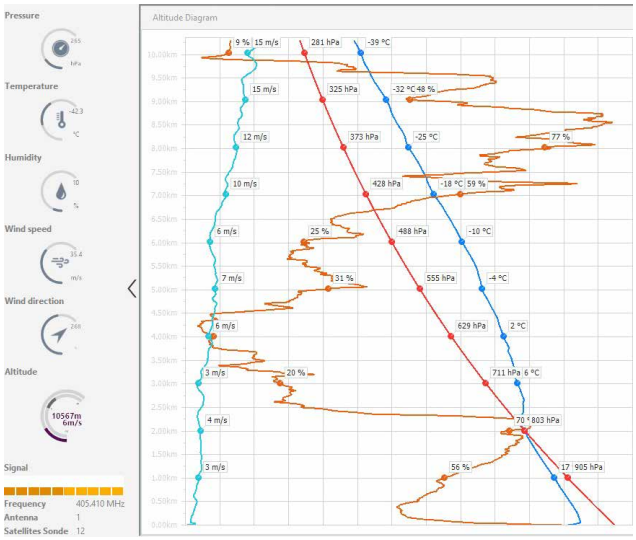
Sounding software

grawMet

Aggregate and evaluate radiosonde data



Main benefits

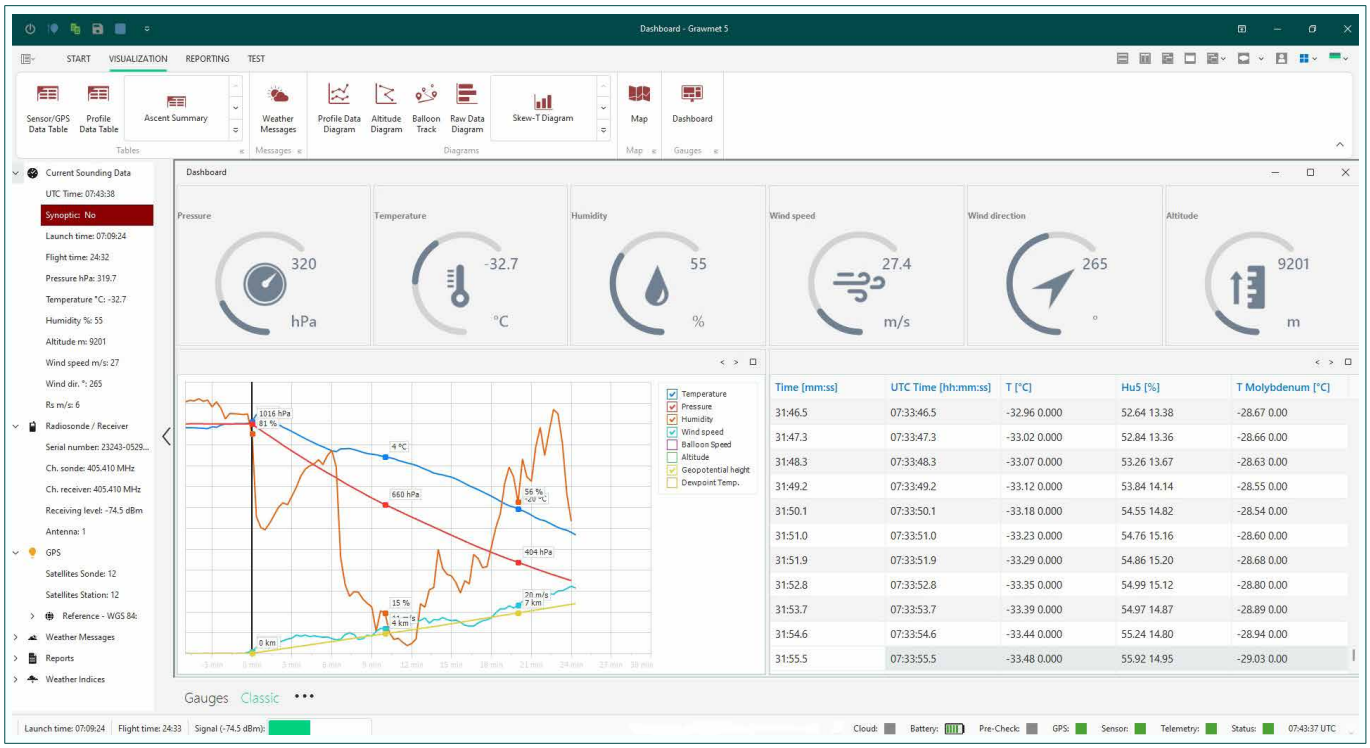
- Intuitive user interface with graphical and tabular data views
- Database-driven evaluation of meteorological measurement data
- Regular quality updates provided
- Individually adjustable user interface
- Status notifications and visualisation of current sounding data

Key specifications	
Compatibility	All Graw radiosondes
Integrations	Native grawGo and Sounding Center integration
Display Options	Profile data, Altitude diagram, Flight map (Open Street Map, Bing), Tephigram, T-Log (P), Skew-T, Emagram, Stüve diagram, Balloon track and Hodograph
Data Transmission	HTTPS, FTP, SFTP and Email

Product description

grawMet is our database-driven meteorological software for analysing daily radiosonde measurements. It allows you to always keep an eye on the status of your sounding and your current sounding data.

Features



Streamlined radiosonde data management

grawMet is the ultimate software solution for managing and evaluating daily radiosonde measurements and offers extensive functions for smooth operation. With its user-friendly interface, grawMet provides a clear and intuitive overview of the status of your soundings and current measurement data. The real-time status bar or the software's pop-up windows ensure that you are always informed about the ascent. Whether you need to analyse measurement data, review weather messages, or monitor the quality of data reception, grawMet delivers everything you need for efficient and precise radiosonde data management.

Advanced data visualisation and customisable reporting

grawMet provides advanced data visualisation tools that allow the user to generate detailed graphical representations of radiosonde data. From altitude diagrams and flight path maps to sophisticated meteorological diagrams such as tephigrams and skew-T diagrams, grawMet offers a wide range of visualisation options. The software also supports customisable reports in various formats, allowing users to tailor the results to their specific needs. Additionally, grawMet's database-driven storage makes it easy to retrieve and re-analyse past soundings and simulating ascents. With built-in support for external sensors and a wide range of weather indices, grawMet offers an unrivalled level of customisation and data accessibility for meteorological professionals.

Technical data

General	
Operating System	Windows® 10 professional or newer (older versions on request)
Groundstation support	Suitable for all GRAW groundstations
Radiosonde support	Suitable for all GRAW radiosondes
External sensors	Ozone functionality fully integrated, raw data output of other external sensors (XDATA, XML)

Preflight

- Test of radiosonde
- Display of raw PTU data and position of groundstation / radiosonde
- Frequency scan
- Setting of frequency
- Entering and storing of pre-flight information
- Entering and storing of site-specific information
- Entering of baseline pressure
- Manual or automatic entering of surface observation data

Communication

- Interface to groundstation (GS-E, GS-U, GS-B, GS-IP)
- Full control of all groundstation features
- Clock synchronization via groundstation GNSS
- Interface to surface weather instruments
- LAN, WLAN, FTP, SFTP (compatible with FIPS) for disseminating all kind of data
- GRAW cloud services (e.g. mobile smartphone App GRAWgo)

During flight

- Automatic start detection
- Change of launch detection time
- Display of groundstation status information (frequency, signal strength, signal quality, detailed GNSS information)
- Display and storing of raw radiosonde data (PTU, GNSS, status) with time stamp
- Processing and storing of derived meteorological data in real-time (e.g. dew point, wet bulb, geo-potential height, MRI, etc.)
- Quality control of all data
- Display of processed meteorological data in tabular form
- Display of processed meteorological data in graphical form (Profile diagram, Altitude diagram, Flight map, Tephigram, T-Log P, Skew-T, Emagram, Stüve diagram, Balloon track, Hodograph)
- Visual and audible alerts (bad data, missing data, launch termination, etc.)
- Calculation significant points
- Creation and display of meteorological messages (PILOT, TEMP, BUFR, CLIMAT, RADAT, NO DATA)
- Supported BUFR types: 309050, 309051, 309052, 309057, 309056

After flight

- Automatic launch termination depending on user defined criteria
- Manual launch termination
- Panning and zooming in all graphics
- Flagging and unflagging of data
- Changing / deleting of flagged data
- Creation of customer specific reports consisting of flight data and messages
- Saving of all flight data and log files in files and database
- Exporting of all data (raw, processed, messages, reports) in different formats (PDF, XLS, CSV, TXT, etc)
- Automatic of manual disseminating of selected data via different transmission modes (e.g. FTP / SFTP / SSH)
- Re-running of old radiosonde flights with different settings in simulation modes
- Different archiving methods
- Archiving of all data
- Local DB to create CLIMAT message and reports
- Reports: Customisation, several output formats (text, pdf, csv, xls)
- Statistics: Max/Min/Average values, Balloon Height statistic, Flight Path statistic
- Weather indices: LFC, LCL, CCL, Showalter Index, CAPE, CINH, EL-Equilibrium Level, K-Index, Total Index, KO Index, Refractive Index, Modified Refractive Index

Impressum/Disclaimer

Graw Radiosondes GmbH & Co. KG

Muggenhofer Straße 95

90429 Nürnberg

Germany

Errors and omissions excepted!