

Datasheet Software GRAWMET



- User-friendly, intuitive operation and individually adjustable user interface
- Status viewlet for status notifications and visualisation of current sounding data
- Database-driven, graphical and tabular viewing and evaluation of meteorological measuring ' data
- Remote monitoring
- Supports cloud services (GRAWgo)



Radiosonde GRAWMET

Features

General

- Operating System: Windows® 10 professional or newer (older versions on request)
- Supports all GRAW groundstations
- Supports all GRAW radiosondes
- External sensors: Ozone functionality fully integrated, raw data output of other external sensors (XDATA, XML)
- Complete user documentation set is available
- Easily upgradable to newest version via cloud access

Communication

- Interface to groundstation (GS-E, GS-U, GS-B, GS-IP)
- Full control of all groundstation features
- UTC 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)

Features

Preflight

- Perform detailed pre-flight test of radiosonde (check all functionalities, check sensor performance)
- Display of raw PTU data and position of groundstation / radiosonde during pre-flight test
- Frequency scan to display and identify available frequencies
- Setting of frequency
- Entering and storing of pre-flight information
- Entering and storing of site-specific information
- Entering of baseline pressure, correction of release point pressure
- Manual or automatic entering of surface observation data
- Calculation of surface dew point

During flight

- Automatic start detection
- Change of launch detection time and recalculation of data
- 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
- Flagging and unflagging of data
- Processing and storing raw data (1-2 sec delayed) and processed data (20 to 60 secs max. delayed)
- Display and storing of radiosonde position in latitude, longitude and altitude (referring to MSL)
- Processing and storing of derived meteorological data in real-time (e.g. dew point, wet bulb, geopotential 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)
- Modification and dissemination of meteorological messages and other data (PILOT,TEMP,BUFR, CLIMAT,RADAT,NO DATA, etc.)
- Visual and audible alerts (bad data, missing data, launch termination, message creation, 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 flight termination depending on user defined criteria
- Manual flight termination
- Panning and zooming in all graphics
- 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 or manual disseminating of selected data via different transmission modes (e.g. FTP / SFTP / SSH)
- Modification and dissemination of meteorological messages and other data (PILOT,TEMP,BUFR, CLIMAT,RADAT,NO DATA, etc.)
- Re-running of old radiosonde flights with different settings in simulation modes
- Different archiving methods and 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