



IDRONAUT μ REDAS

OCEAN SEVEN 3XX CTDs REAL-TIME DATA ACQUISITION MOBILE SOFTWARE

IDRONAUT completes the “Portable Reader” by introducing a proprietary real-time data acquisition application, specifically developed to be used in the field under extreme conditions. The aim of μ REDAS is to emulate the REDAS-5 data acquisition functions on a rugged mobile computer (PDA) running the Windows Mobile, through a simplified and intuitive operator interface software. μ REDAS automatically interfaces the OCEAN SEVEN 3xx probes and allows the operator to set up and start a real-time data acquisition cycle in few seconds. Acquired data is stored in binary “RAW” files, compatible with the REDAS-5 programme, and can be later imported into the REDAS-5 database to perform data visualization (numerical and graphical) and post-processing.

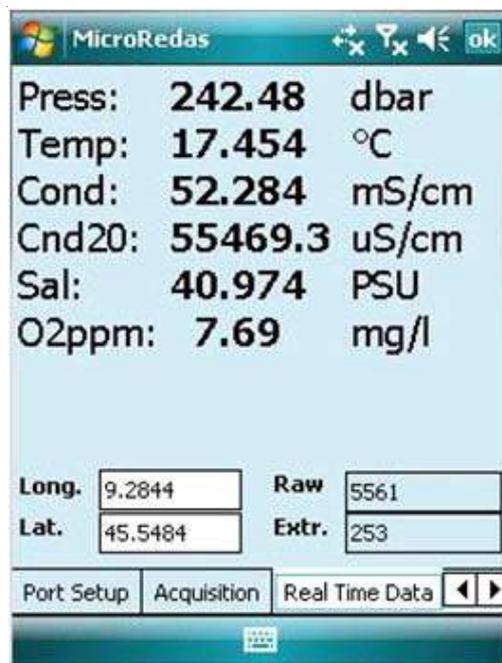
μ REDAS interfaces and is compatible with the following IDRONAUT probes:

- OCEAN SEVEN 316 and OCEAN SEVEN 316Plus
- OCEAN SEVEN 320 and OCEAN SEVEN 320Plus
- OCEAN SEVEN 303
- OCEAN SEVEN 304
- OCEAN SEVEN 305
- OCEAN SEVEN EA\89



The most important features of μ REDAS are:

- Interfacing of OCEAN SEVEN 3xx probes through: RS232C, RS422, telemetry and Bluetooth wireless interfaces.
- Real-time data acquisition and storing at the maximum scan rate allowed by the interfaced OCEAN SEVEN 3xx probe.
- Easy customization of the shown acquired real-time data. It is possible to show up to 8 different parameters contemporaneously.
- Storing of programme set-up in a configuration file for an easy and quick real-time acquisition start-up.
- Extraction and showing of acquired data in function of time and/or pressure configurable steps.
- Immediate numerical representation of acquired real-time data using large fonts thus further increasing numbers readability.
- Interfacing of a GPS to associate acquired real-time data with the geographical coordinates.
- Calculation of derived parameters. **Salinity, Sound Speed, Water Density, Pressure to Depth Conversion, Potential Temperature, Oxygen ppm** are obtained using the algorithms described in the UNESCO technical papers in marine science no. 44 “Algorithms for computation of fundamental properties of sea water”.



Note

REDAS-5 programme is mandatory to post-process, extract, visualize and export in text files data acquired through μ REDAS .



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