iMet-1-RS
403 MHz GPS Research Radiosonde

Features

Flexible design with serial cable for integration with auxiliary sensors.
Open source encoding allows for use with any compatible receiver/decoder.
User programmable software with 2-way data flow.
Solid-state data storage option. Suitable for UAV integration.

Compatible with:
- En-Sci/DMT ECC type Ozone
- DMT Cryogenic Frostpoint Hygrometer
- MicroAethlometer (Black Carbon)
- Any sensor with serial communications

Product Overview

Operating Principle GPS
Nominal Frequency 403 MHz
Slant Range > 150 km *
Altitude > 30 km *
Battery Lithium Ion
Operating Time > 3 Hours
Weight 260 Grams
Sampling Rate 1 / Second
Case Expanded Polystyrene
Data Encoding Bell-202

Meteorological Sensors

Pressure (Model RSB)
Type Piezoresistive
Range 2 to 1070 hPa
Accuracy 0.5 hPa < 400 hPa
Resolution < 0.01 hPa
Response Time < 1.0 Sec

Temperature
Type Bead Thermistor
Range - 95 to + 50 Deg
Accuracy 0.2 Deg C
Resolution < 0.01 Deg
Response Time 2.0 Sec (1000 hPa)

Humidity
Type Capacitive
Range 0 to 100% RH
Accuracy 5% RH
Resolution < 0.1% RH
Response Time 2 Sec @ 25 Deg C

Specifications subject to change without notice
* Actual results depend on conditions and receiver/antenna used

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