iMet-P

403MHz RDF
Pilotsonde

Transmitter

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Transmission Type	Synthesized
Maximum Range	> 250 km*
Maximum Altitude	> 35 km*
Frequency Band	400.15 - 406 MHz
Frequency Stability	+/- 2 kHz
Output Power	200 mW
Emission Bandwidth	According to EN 302 054
Sideband Radiation	According to EN 302 054
Modulation	None
Frequency Setting	Push Button
Push Button Frequencies	402, 403, 404, 405 Mhz

General

Battery	Litium
Operating Time	> 180 min
Weight	80 g
Dimentions (L x W x H)	235 x 70 x 30 mm

Key Features

- Synthesized crystal controlled oscillator
- Good frequency stability
- Compact and light weight
- Simple to use:
  - Dry cell lithium battery
  - Push button frequency selection

The iMet-P pilotsonde is a transmitter-only type radiosonde that can be used with a tracking radiotheodolite to make upper-air Pilot Wind observations. The iMet-P operates in the 400.15 to 406MHz frequence band and is ideally suited for operations with the iMet-1790 tracking radiotheodolite.

The iMet-1790 uses the radio direction finding (RDF) method to automatically track the position of the pilotsonde during it's balloon ascent.

D-Met sounding software uses the pointing angles from the radiotheodolite and the time of flight to calculate the wind vectors in realtime during the assent. D-Met produces PILOT and high resolution BUFR messages as well as tables and graphs of the wind vectors.
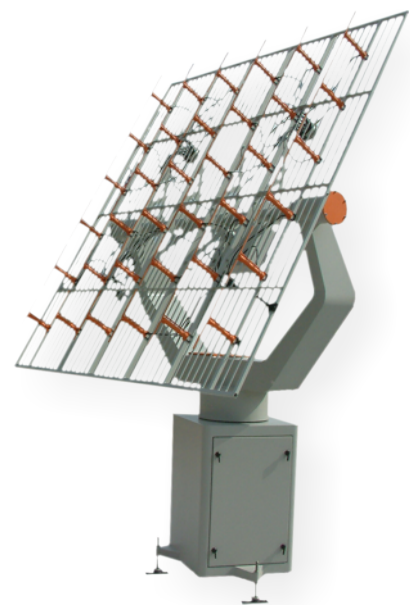
iMet-1790 Radiotheodelite

InterMet
International Met Systems

Specifications subject to change without notice
* *Subject to balloon dimensions and atmospheric conditions*