



iMet-3050A

403MHz Portable Antenna / Receiver

403MHz Antenna

Antenna type	Quarter-wave monopole
Construction	Aluminium / fibreglass composite
Polarization	Vertical
Radiation pattern	Omnidirectional
Gain	2 dBi
Max slant range	> 250 km*
Max altitude	> 40 km*

Receiver

Type	Superheterodyne
Frequency control	Synthesized with AFC
Bandwidth	15kHz
Demodulation	FM, FSK, GFSK
Sensitivity	-118 dBm

Computer Requirements

Type	Any current PC
Operating system	Windows
Connection	USB

System Overview

Radiosonde Compatibility	iMet-1, iMet-2, iMet-4, iMet-50, iMet-54
Frequency	400.15 - 406 MHz
Operating mode	Mobile
Operating Environment	Rain proof
System architecture	Digital
MTBF	> 2400 hours
Useful life	> 8 years
Sounding Software Compatibility	D-Met, iMetOS-II, SkySonde

Operating Parameters

Power	Via USB port from PC
Temperature	-20 to +40 °C
Antenna weight	2.2 kg
Antenna length	35 cm
Optional tripod	1.5 m fully extended

Key Features

- Combined antenna and receiver with single USB cable interface
- Integrated GNSS providing accurate station location
- Compatible with all 403MHz InterMet radiosondes
- Small size and light weight
- Ideal for field use
- Compatible with D-Met, iMetOS-II and SkySonde sounding software

This antenna is targeted at users that requires portability and ease of deployment. The compact, integrated, design and simple cabling requirements (USB connection only) makes this antenna a favourite in the research field

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



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