



- **Advanced GPS Technology**
- **Fixed Site or Mobile Deployment**
- **Small, Rugged, Light**
- **All Digital Architecture**
- **WMO/STANAG Reports**
- **Compatible with all iMet sondes**
- **Vehicle Integration Available**



iMet-3100M

403 MHz GPS Military Atmospheric Sounding System

System Overview

Operating Principle	Automatic GPS
DGPS	Standard
Frequency	400.15 – 406 MHz
Operating Mode	Mobile or Fixed
Operating Environ.	All-Weather
System Components	Digital
Users Required	1 person
Field Installation	< 10 minutes
Useful Life	10 Years
Software	iMetOS-II Military

Operating Parameters

Power	18-36 VDC
Outside Equip Temp	- 25 to + 60 ° C
Environment	MIL-STD 810F
EMI	MIL-STD 461E
Antenna/LNA Wt.	5.5 kg (including tripod)
Tripod	1.5 m – 2.3 m fully extended
Cable	30 m RS-422 Data and Power

Upper-Air Sounding Performance

Max Slant Range	> 200 Km
Max Altitude	> 30 Km
Reports	AI Std WMO/STANAG

Input Power

Standard	10 to 28 VDC
Vehicle Option	12 to 36 VDC
AC Option	110 to 220 VAC, 50-60 Hz

403 MHz Antenna/LNA

Antenna Type	Center-fed Coaxial Dipole
Construction	Fiberglass/Aluminum
Polarization	Vertical
Impedance	50 Ohm
Gain	1 dBi
LNA	19 dB

403 MHz Receiver

Type	Superheterodyne
Frequency Control	Synthesized with AFC
Bandwidth	15 kHz
Modulation	FM / FSK
Sensitivity 12 dB S/N	-115 dBm

Deployment Options

Antenna Assembly	Tripod
Field Case	Custom Pelican Case Contains Antenna, Tripod, Cables
Vehicle Integration	Available

System Computer

Processor	Any Current Model
Operating System	Windows 10
Data Output	RS-232, Optional USB

International Met Systems is one of the world's leading suppliers of atmospheric sounding systems. Since 1997, we have delivered over 400 systems to customers in over 40 countries.

InterMet offers a complete line of 403 and 1680 MHz products to National Weather Services, Military Units, Universities and Research Institutions. We offer flexible, cost-effective solutions - and the highest level of customer service in the industry.

Specifications Subject to Change without Notice
See iMet-4 Brochure (202084) for Radiosonde Information

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