



iMet-3100M

403 MHz GPS Military Atmospheric Sounding System

- Advanced GPS Technology
- Fixed Site or Mobile Deployment
- Small, Rugged, Light
- All-Weather Operations
- All Digital Output
- WMO / STANAG Reports
- Compatible with all iMet Sondes



*Integrated Receiver/Decoder Assembly
with Removable UHF Antenna*

System Overview

Operating Principle	Automatic GPS with Differential Correction
Frequency	402 – 406 MHz
Operating Mode	Mobile or Fixed Site
Operating Environment	All-Weather
System Architecture	Digital
Users Required	1 person
Field Installation	< 15 minutes
MTBF	> 2400 Hours
Useful Life	> 10 Years

Operating Parameters

Power	28 VDC nominal (18-32 VDC) 3A
Outside Equip Temp	- 40 to + 55 ° C
Environment	MIL-STD 810F
EMI	MIL-STD-461E
Weight	< 5.5 kg (complete)
Tripod Length	1.1 to 2.3 m fully extended
Cable (single)	30m RS-422 Data / Power

Upper-Air Sounding Performance

Max Slant Range	> 250 Km
Max Altitude	> 30 Km
Reports	All Std WMO/STANAG

403 MHz Antenna/LNA

Antenna Type	Centerfed coaxial dipole
Construction	Fiberglass/Aluminum
Polarization	Vertical
Output Impedance	50 Ohm
Gain	1 dBi
LNA	26 dB

403 MHz Receiver

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

Installation Options

Antenna	Tripod or vehicle mount
Carrying Cases:	Tripod assembly Antenna, PC, Cables
Ruggedized MIL-STD	Available

System Computer

Type	Any current PC
Data Output	RS-232 Serial
Operating System	Windows
Ruggedized Option	Panasonic Toughbook

*Specifications Subject to Change without Notice
See iMet-1 Brochure for Radiosonde Information*



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