

A fully-integrated sensor solution for atmospheric boundary layer studies

- Radiosonde-quality GPS receiver and pressure sensor mounted internally
- Met Configuration includes dual • temperature and humidity sensors to reduce placement effects
- Two additional sensor ports offer • flexibility for measurements beyond PTU
- Onboard data storage plus real-time radio transmission and data viewing
- High-capacity internal battery supports • prolonged operations and compatibility with high power sensors
- PC compatible iMet-XS Software manages hardware configuration and data outputs

## iMet-X4

In-Situ Atmospheric Measurements for **UAS** Deployment

## Overview

The iMet-X4 is the next generation of InterMet's X family of UAS-deployed sensors. The X4 Hub handles power and data management for the internal GPS and pressure sensors, plus up to 6 external sensors.

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Dimensions	140 x 55 x 28 mm
Weight	160 g
Power	2,000 mAh Internal Battery
Battery Life	13 Hours (Met Configuration)
Charging	USB
Onboard Memory	Removable microSD card (16 GB)
Pressure Range	1200 hPa – 10 hPa
Temperature Range	0 to 40°C
Humidity Range	0 – 95%
Data Rate	1 – 5 Hz
Available Sensor Ports:	
I2C	2 (Humidity)
LIART TTI	2

InterMet Analog 2 (Air Temperature)

See the iMet-X4 manual for complete device specifications

## **GPS Receiver**

U-Blox CAM-M8 Manufacturer / Type Vertical Accuracy 12 m < 60 seconds (typical) Acquisition Time

## Pressure Senso

Manufacturer	Measurement Specialties
Туре	Piezoresistive
Measurement Range	1200 hPa – 10 hPa
Resolution	0.02 hPa
Response Time	8.22 milliseconds
Accuracy	+/- 1.5 hPa

Temperature Sensor				
Manufacturer / Type	Shibaura Glass Thermisto			
Measurement Range	- 90 to + 50°C			
Resolution	0.01°C			
Response Time	1 sec @ 5 m/s flow			
Accuracy	+/- 0.3°C			

Humidity Sensor	
Manufacturer / Type	IST Capacitive Polymer
Measurement Range	0 to 100% RH
Resolution	0.1% RH
Response Time	@ 25°C, 0.6s
	@ 5°C, 5.2s
	@ -10°C, 10.9s
Accuracy	+/- 5% RH



InterMet offers a complete line of sounding systems and sensors to meet customer requirements and budgets. We offer flexible, cost-effective solutions and the highest level of customer service in the industry.



**Deployment Example on Inspired Flight IF750** 

