

iMet-XQ2

In-Situ Atmospheric Measurements for UAS/UAV Deployment

Self-contained sensor solution for atmospheric boundary layer studies

- Radiosonde-quality sensors measuring pressure, temperature, and humidity
- Accurate measurements with high vertical resolution and precise spatial coordinates
- Affordable and reusable sensor package

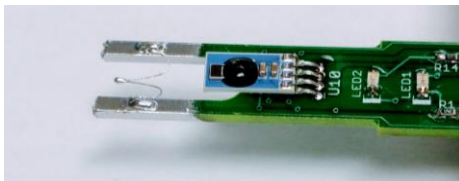
Product Overview

The iMet-XQ2 is a second-generation atmospheric sensor replacing the original iMet-XQ.

The XQ2 features 15 hours of data capacity on its internal flash drive combined with rechargeable battery life of five hours – making it suitable for a wide range of missions.

Operating Parameters

Power	Rechargeable Battery
Charging Temperature	0 to 45°C
Battery Life	300 Minutes
Data Storage	16 Mb Flash Memory (15 hour storage)
Data Transfer	USB
Sampling Rate	1 Hz
Size/Weight	126 x 58 mm, 60 g
Temperature Range	- 20 to 50°C



Sensor Probe with IST HYT-271

GPS Receiver

Manufacturer / Type	u-blox CAM-M8
Acquisition Time	< 60 seconds (typical)
Response Time	1 second
Vertical Accuracy	12 m

Pressure Sensor

Manufacturer	Measurement Specialties
Type	Piezoresistive
Measurement Range	1200 – 10 hPa
Resolution	0.01 hPa
Response Time	10 milliseconds
Accuracy	+/- 1.5 hPa

Temperature Sensor

Manufacturer / Type	Shibaura Glass Thermistor
Measurement Range	- 90 to 50°C
Resolution	0.01°C
Response Time	1 second @ 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	0.6 seconds @ 25°C 5.2 seconds @ 5°C 10.9 seconds @ -10°C
Accuracy	+/- 5% RH

International Met Systems is one of the world's leading suppliers of Atmospheric Sensors for synoptic, military and research applications. InterMet has been providing atmospheric sensors for UAS/UAV deployments since 2015.

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.



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