

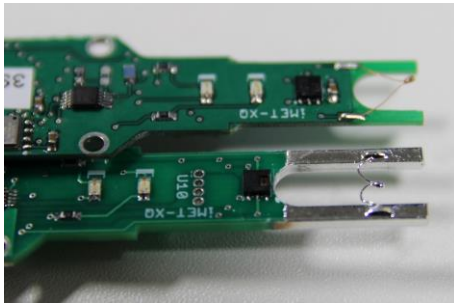


iMet-XQ

Atmospheric Sensor System for Rotary Wing UAV Integration

Radio-sonde-quality sensors combined with state of the art electronics yield an impressively small sensor package for boundary layer profiles using low-cost quad-type UAVs

Suitable for any mission that requires accurate measurements with high vertical resolution and precise spatial coordinates



Beta vs. Production T/U Probe

System Overview

The iMet-XQ is a self-contained atmospheric sensor for mounting on rotary-wing UAVs. The XQ includes a GPS receiver, Pressure, Temperature and Humidity sensors powered by a rechargeable battery.

16 Mb of data can be recorded to an internal flash drive for USB download post-flight. Real-time data integration package available for 3DR Solo Quad.

Operating Parameters

Power	Rechargeable Battery
Battery life	120 Minutes
Data Storage	16 Mb Flash Memory
Data Transfer	USB
Sampling Rate	1 - 3 Hz
Size / Weight	100 x 30 mm, 15 g

Humidity Sensor

Type	Capacitive
Range	0 - 100% RH
Response Time	5 sec 1 m/s velocity
Accuracy	+/- 5% RH
Resolution	0.7% RH

Temperature Sensor

Type	Bead Thermistor
Range	- 95 to + 50 ° C
Response Time	2 seconds
Accuracy	+/- 0.3° C
Resolution	0.01 ° C

Pressure Sensor

Type	Piezoresistive
Range	10 - 1200 hPa
Response Time	10 ms
Accuracy	+/- 1.5 hPa
Resolution	0.02 hPa



iMet-XQ 3DR Solo Integration

InterMet is one of the world's leading suppliers of Atmospheric Sounding Systems for synoptic, military and research applications.

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.

Specifications Subject to Change without Notice
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