



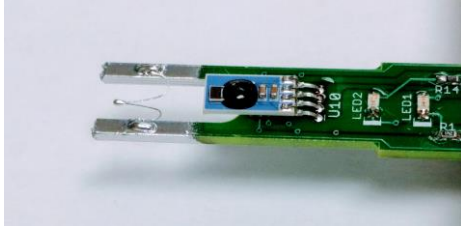
# iMet-XQ2

## Second-Generation Atmospheric Sensor for UAV Deployment

Radiosonde-quality sensors combined with state of the art electronics yield an affordable, reusable sensor package for boundary layer profiles using rotary-wing UAVs

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

XQ2 improvements include an upgraded IST humidity sensor, longer life battery, more accurate pressure measurement and improved GPS performance



Sensor Probe with IST HYT-271 RH

### System 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. The XQ's real-time data integration package for the 3DR Solo Quad is still available for the XQ2.

### Operating Parameters

Power	Rechargeable Battery
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

### Humidity Sensor

Type	Capacitive
Range	0 - 100% RH
Response Time	@ 25C, 0.6s @ 5C, 5.2s @ -10C, 10.9s
Accuracy	+/- 5% RH
Resolution	0.1% RH

### Temperature Sensor

Type	Bead Thermistor
Range	- 90 to + 50 ° C
Response Time	1 second @ 5m/s flow
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	0.01 hPa

### GPS

Type	UBlox CAM-M8
Vertical Accuracy	12 m
Response Time	1 s



3DR Solo Integration

*InterMet is one of the world's leading suppliers of Atmospheric Sensors 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.*



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