InterMet has been providing atmospheric sensors for UAV deployment since 2015. A key observation has been that placement of the air and humidity sensors on the aircraft plays a large role in the accuracy and repeatability of the measurements.

The X4 uses radiosonde-quality sensors combined with state-of-the-art electronics to yield an affordable, reusable sensor package for boundary layer profiles using rotary or fixed-wing UAVs. The X4 includes four auxiliary ports to add new sensors as they become available.

The X4 also includes a 915 MHz short range transmitter to provide real time sensor and GPS data.

The X4 is suitable for any mission that requires accurate measurements with high resolution, quick time response and precise spatial coordinates.

The iMet-X4 provides redundant atmospheric measurements for reduced uncertainty and higher reliability. Five hours of battery life with real-time data transmission makes it suitable for a wide range of missions and operational scenarios.

### Operating Parameters
- **Power**: Rechargeable Battery
- **Battery Life**: 300 Minutes
- **Data Transfer**: 915 MHz link
- **Range**: Approx. 2.5km
- **Sampling Rate**: 1-10 Hz
- **Size / Weight**: 95 x 60 x 70 mm, 220 g

### Humidity Sensors
- **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 Sensors
- **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

InterMet is one of the world’s leading suppliers of Atmospheric Sensors for synoptic, military and research applications.

We offer 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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