

aethair PRO

Technical Specifications



aethair PRO TECHNICAL SPECIFICATIONS

General

| | |
|-----------------------|--|
| Input Voltage | 5 - 24 VDC, 110-240 VAC |
| Power | 0.6 Watt Built-In Battery & Charger |
| Alerts | Visual and Audio |
| Operating Temperature | -30 °C to 75 °C (-22 F to 167 F) |
| Accelerometer | 16g (13-bit resolution) |
| Dimensions (LxWxD) | 4.5in x 9.625in x 4.5in |
| Weight | 1.6 Lbs (0.73 kg) |
| Certifications | CE, FCC |

Gas Sensors

| | | |
|-------------------|---------------------------|----------------------------------|
| SO ₂ | Effective Range | 0 - 100 ppm |
| | Maximum Consistency Error | < ±15 |
| NO ₂ | Effective Range | 0 - 20 ppm |
| | Maximum Consistency Error | -20 to -40 |
| NO | Effective Range | 0 - 20 ppm |
| | Maximum Consistency Error | 0 to -20 |
| CH ₂ O | Effective Range | 0~1 mg/m ³ |
| | Maximum Error | <5% FS |
| CO ₂ | Effective Range | 0 to 100 % vol (Process Control) |
| | Maximum Consistency Error | ±10ppm |
| CO | Effective Range | 0 - 1000 ppm |
| | Maximum Consistency Error | < 10 |
| O | Effective Range | 80 to 120 |
| | Maximum Consistency Error | < 1 |
| O ₃ | Effective Range | 0 - 20 ppm |
| | Maximum Consistency Error | < -20 to -40 |
| NH ₃ | Effective Range | 0 - 100 ppm |
| | Maximum Consistency Error | < 3 |
| H ₂ S | Effective Range | 0 - 100 ppm |
| | Maximum Consistency Error | < 20 |
| tVOCs (PID) | Effective Range | 0 - 200 ppm |
| | Maximum Consistency Error | > 0.6 |

*Additional sensors can be included based on the application

PM Sensors

| | |
|-----------------------------|--------------------------------------|
| Size Range | 0.3 to 25 µm |
| Size Channels | 0.3, 0.5, 1.0, 2.5, 5.0, 10.0 µm |
| Flow Rate / Accuracy | 0.1 CFM (2.83 LPM) / +/- 3% |
| Aerosol Concentration Range | 0.1 to 20,000 µg/m ³ |
| Internal Vacuum Pump | Internal with automatic flow control |

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Environmental Sensors

| | | |
|---|---------------|--------------|
| Temperature | Range | -20 - 70 °C |
| | Resolution | 0.1 °C |
| | Maximum Error | ±0.5 °C |
| Humidity | Range | 0 - 90% RH |
| | Resolution | 0.1 %RH |
| | Maximum Error | ±2 %RH |
| Barometer Optional differential pressure sensors | Range | 300-1100 hPa |
| | Resolution | ±0.12 Pa |
| | Maximum Error | ±1.3 Pa |

Communications

| | |
|-----------|------------------|
| Cellular | 4G LTE / 3G / 2G |
| WiFi | 802.11 b/g |
| Bluetooth | Bluetooth 4.0 |
| Mesh | Zigbee |
| GPS | A-GPS |
| Antenna | Built-in |
| SIM Card | Built-in |

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