**Air quality monitors gas**

**Thermo 49iQ ambient O3 analyser**

***Description***

The Thermo Scientific™ 49iQ Ozone(O3) Analyzer utilizes UV Photometric technology to measure the amount of ozone in the air from ppb levels up to 200ppm.

***Specification***

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| **Product Size** | -  |
| **Gases Measured** | Ozone  |
| **Custom Ranges** | 0-0.05 to 200 ppm; 0-0.1 to 400 mg/m3  |
| **Description** | 49iQ Ozone Analyzer  |
| **Flow Rate** | 1-3 LPM  |
|  |  |
| **Height (Metric)** | 221.5mm  |
|  |  |
| **Depth (Metric)** | 609mm  |
| **Linearity** | ±1% full scale  |
| **Approvals and Certifications** | CE, TUV-SUD Safety, EQOA-0880-047  |
| **Response Time** | 20 seconds (10 second lag time)  |
| **Span Drift** | <1% full scale (1 month)  |
| **Temperature (Metric) Operating** | 0° to 45°C (Operating)  |
|  |  |
| **Weight (Metric)** | 14.4kg (standard), 16.1 kg (with ozonator)  |
|  |  |
| **Width (Metric)** | 425.45mm  |
| **Zero Drift** | <1.0 ppb (24 hour) <2.0 ppb (7 day)  |
| **Zero Noise** | 0.25ppb RMS (60 seconds average time)  |
| **Measurement Range** | 0–200 ppm0–400 mg/m3  |
| **Analog Inputs** | 4 Isolated voltage Inputs 0–10 V  |
| **Analog Output** | 6 Isolated analog voltages outputs, with 4 selectable ranges 6 Isolated analog current outputs, with 2 selectable ranges  |
| **Communication Ports** | Serial ports:1 RS-232/485 port1 RS-485 external accessory port Other ports:3 Full speed USB ports (one in front, two in rear) 1 Gigabit ethernet port  |
| **Communication Protocols** | MODBUS, streaming  |
| **Detection Limit** | 0.50 ppb (60 second averaging time)  |
| **Digital Inputs** | 16 Digital inputs (TTL)  |
| **Digital Outputs** | 8 Solenoid driver outputs 10 Digital reed relay contact outputs  |
| **Power Requirements** | 100-240 VAC 50/60 Hz 275 Watts  |
| **Ozonator Output** | .025 - 1.000 ppm @ 3-4 LPM  |
| **Ozonator Response** | 1 minute to 98% or 5 ppb of final value, whichever is greater  |
| **Ozonator Stability** | ±4 ppb or ±1% of reading, whichever is greater |