**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***

|  |  |
| --- | --- |
| **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 ppm 0–400 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 port 1 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 |