**Air quality monitors gas**

**Thermo 43iQ ambient SO2 analyser**

***Description***

The Thermo Scientific™ 43iQ Sulphur Dioxide (SO2) Analyzer utilizes pulsed fluorescence technology to measure the amount of sulphur dioxide in the air.

***Specification***

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| **Product Size** | - |
| **Gases Measured** | Sulphur Dioxide |
| **Description** | 43iQ Sulphur Dioxide Analyzer |
| **Extended Range** | 0-100 ppm, 0-250 mg/m^3 |
| **Flow Rate** | 0.5 lpm (standard) |
|  |  |
| **Height (Metric)** | 221.48mm |
|  |  |
| **Depth (Metric)** | 609mm |
| **Linearity** | ±1% full scale |
| **Precision** | ±1% full scale |
| **Approvals and Certifications** | CE, TUV-SUD Safety, US EPA: EQSA-0486-060 |
| **Interferences** | (EPA Levels) Less than lower detectable limit except for the following: NO < 3 ppb, M-Xylene < 1ppb, H2O < 3% of reading |
| **Response Time** | 60 seconds (10 second averaging time) 110 seconds (60 second averaging time) 320 seconds (300 second averaging time) |
| **Span Drift** | ±0.5% full scale (24 hour) |
| **Temperature (Metric) Operating** | 0°-45°C |
|  |  |
| **Weight (Metric)** | 16.8kg |
|  |  |
| **Width (Metric)** | 425mm |
| **Zero Drift** | <0.5 ppb (24 hour) |
| **Zero Noise** | 1.0 ppb RMS (10 second averaging time), 0.5 ppb RMS (60 second averaging time),0.25 ppb RMS (300 second averaging time) |
| **Measurement Range** | 0-10 ppm, 0-25 mg/m^3 |
| **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** | 2 ppb (10 second averaging time)  1 ppb (60 second averaging time)  0.25 ppb (300 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 50/60Hz, 275 Watts |