**Air quality monitors gas**

**Thermo 48iQ ambient CO analyser**

***Description***

The Thermo Scientific™ 48iQ Carbon Monoxide (CO) Analyzer utilizes gas filter correlation technology to measure the amount of carbon monoxide in the air.

***Specification***

|  |  |
| --- | --- |
| **Product Size** | - |
| **Gases Measured** | Carbon Monoxide |
| **Description** | 48iQ Carbon Monoxide Analyzer |
| **Flow Rate** | 1.0 SLPM (1 atm inlet pressure) |
|  |  |
| **Height (Metric)** | 221.48mm |
|  |  |
| **Depth (Metric)** | 609mm |
| **Linearity** | '±1% full scale < 1000 ppm; ±2.5% full scale > 1000 ppm |
| **Lower Detectable Limit** | 0.04ppm (30 second averaging time) |
| **Approvals and Certifications** | CE, TUV-SUD Safety, RFCA-0981-054 |
| **Response Time** | 60 seconds (30 second averaging time) |
| **Span Drift** | ±0.5% reading (24 hour) |
| **Temperature (Metric) Operating** | 5–45 °C (may be safely operated over the range of 0–45 °C) |
|  |  |
| **Weight (Metric)** | 15.6kg |
|  |  |
| **Width (Metric)** | 425mm |
| **Zero Drift** | <0.1 ppm (24 hour) |
| **Zero Noise** | 0.02 ppm RMS (30 second averaging time) |
| **Measurement Range** | 0-10000 (ppm or 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** | 0.04 ppm (30 second averaging time) |
| **Digital Inputs** | 16 Digital inputs (TTL) |
| **Digital Outputs** | 10 Digital reed relay contact outputs  8 Solenoid driver outputs |
| **Power Requirements** | 100–240 VAC 50/60 Hz 275 Watts |