**Air quality monitors gas**

**Thermo 410iQ ambient Carbon Dioxide analyser**

***Description***

The Thermo Scientific™ 410iQ Carbon Dioxide (CO2) Analyzer utilizes advanced Non-Dispersive Infrared (NDIR) optical filter technology to measure concentrations of CO2.

***Specification***

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| **Gases Measured** | Carbon Dioxide |
| **Description** | 410iQ Carbon Dioxide Gas Analyzer |
| **Flow Rate** | 1.0 SLPM (1 atm inlet pressure) |
|  |  |
| **Height (Metric)** | 221.48mm |
|  |  |
| **Depth (Metric)** | 609mm |
| **Linearity** | ±1.5% of span (at concentrations of 10 to 100% of span) |
| **Approvals and Certifications** | CE, TUV-SUD Safety |
| **Response Time** | 90 seconds (30 second averaging time) |
| **Span Drift** | ±2% of reading (24 hour) |
| **Temperature (Metric) Operating** | 5–45 °C (may be safely operated over the range of 0–45 °C) |
|  |  |
| **Weight (Metric)** | 14.2kg (standard), 13.7 (high level) |
|  |  |
| **Width (Metric)** | 425.45mm |
| **Zero Drift** | ±1.0 ppm (24 hour) |
| **Zero Noise** | 0.5 ppm RMS (60 second averaging time) |
| **Measurement Range** | 0—10000 ppm |
| **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, AK, Gesytec (Bayern-Hessen) |
| **Detection Limit** | 1.0 ppm (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 |