

QFM440

CARBON DIOXIDE MONITOR & ALARM SYSTEM

Easy-to-install, wall mounted, modular carbon dioxide concentration monitor and warning alarm system, providing continuous monitoring of carbon dioxide levels in the surrounding air and both visual and audible alarms when these fall outside pre-set levels.

KEY FEATURES

- Monitor operates continuously. Built-in visual and audible alarms with separate 'high' and 'critical' alarm states.
- Internal audible alarm is 85dBA at 30cm.
- Long life infra-red carbon dioxide sensors provide 10 years' operation in normal use.
- Simple & secure connections to repeater modules using a pre-wired plug in connector (up to a maximum of 100m).
- Relay connection for fans, valves or other alarm devices to allow the user to fully customise the system to preferred requirements (model QFM440/R)
- Suitable for use in high magnetic fields.
- Alarms set at 1.5%-3% CO₂ (0.5% and 1.5% levels available on request).



APPLICATIONS

The QFM440 Carbon Dioxide Monitor may be used as a stand-alone device with its own audible and visual alarms, or linked to other repeater modules to mimic the condition of the monitor. Repeater modules can be connected to the QFM440 and located outside the monitored area to warn users at the point of entry. The system can be fully customised to allow multiple location monitoring and further modules can be added at a later date to expand the scope of the system.

The QFM440 links to CryoPanel and CryoLog for complete laboratory monitoring and alarm management.

NB Carbon dioxide monitors must not be used for the detection of oxygen gas.

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TECHNICAL SPECIFICATIONS

Dimensions	H150 x W90 x D50 mm
Weight	550g (excl. cable)
L.E.D.s	Warning alarm, critical alarm, power indication, service
Alarm indication	Audible - 85dBA at 30cm
Calibration test	Test switch (RED flashing LEDs + audible bleep)
Indications and Alarms	High CO ₂ (1.5%)*, Critically High CO ₂ (3.0%)* Warning alarm (Red flashing LED + audible bleep) Critical alarm (Red flashing LED + audible bleep) Service warning (Yellow constant LED + audible bleep) * Alarm levels are factory pre-set and may be varied according to industry best practice levels.
PSU	Low voltage 12V PSU – recommend a QM12VBAT is fitted for continuous monitoring in the event of a mains power failure.

EQUIPMENT OPTIONS

PART NO.	DESCRIPTION
QFM440/R	Carbon Dioxide Monitor with relay output

SERVICE AND SUPPORT

Design & installation	Quantum can advise on how to integrate your existing equipment and/or design systems to suit specific requirements and maximise safety and reliability.
Calibration	It is recommended that all products are calibrated at least every 12 months, either on site or at Quantum Cryogenics.
Maintenance and refurbishment	A maintenance check is advised every 12 months. Quantum offers a choice of maintenance contracts and will refurbish/upgrade any product, regardless of age or condition.

Quantum Production has a policy of continuous improvement and we reserve the right to upgrade or change specifications without prior notice. Full technical specifications are available upon request.



ACCESSORIES

PART NO.	DESCRIPTION
CryoPanel 1	Single channel repeater with LCD display to show oxygen concentration and mimic alarms
CryoPanel 4	Central monitoring panel for single or multiple gas monitors and other laboratory monitoring devices. Standard facility for BMS, safety valve control and extraction systems
QM12VBAT	Battery backup PSU
TGKIT	Test gas kit
QM330RS	Replacement 2-year sensor/battery pack

Further details on these products is available on separate datasheets.





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Pricing on any accessories shown can be found by keying the part number into the search box on our website.

The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

