

QM440 CARBON DIOXIDE MONITOR AND WARNING ALARM

MODULAR SYSTEM FOR CONTINUOUS MONITORING OF CARBON DIOXIDE CONCENTRATIONS



Lightweight, compact and easy to maintain

The QM440 Carbon Dioxide Monitor and Alarm combines simple, reliable operation with ease of installation, providing a low cost solution for CO₂ monitoring. It continuously monitors the concentration of the carbon dioxide in the air surrounding its sensor and provides both visual and audible alarms when the monitored concentration exceeds pre-set levels.

The QM440 system is designed to be completely modular with the basic building module being the QFM440 monitor. This unit incorporates a sensor which is placed at an appropriate sensing point by simply screwing to the wall. The QFM440 also includes audible and visual alarms and by simply plugging in additional modules to the base unit, a number of additional facilities are available. The alarm can be repeated at a remote site; a digital display of the CO₂ concentration can be added and a switching unit for connection of fans, valves or other alarm systems can be provided simply by selecting the appropriate additional modules. A computer connection can also be included.

The repeater units are all battery powered, with the exception of a further mains powered module which incorporates a boosted klaxon and warning beacon, for use in particularly noisy operating environments. Additional modules can be added to the system when initially installed, or at a later date without need for modification of the basic unit.

Base module acts as simple stand-alone unit or in conjunction with a range of remote alarm/display units allowing customisation to suit different locations. System simply 'plugs together' to allow easy connection of alarms and displays to suit every application

System is mains powered and fixes easily to a wall with facility for battery backup system.

Base unit can be checked for correct calibration by the user in minutes

All modules have built in visual and audible alarms with two alarm states 'Warning' and 'Critical'

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Any number of base sensing units can be fitted at any site to allow for the need for multiple sensing. The QFM440 by selective use of appropriate modules can provide a low cost solution to every scenario from a simple single monitor, to a large monitoring system spread over a number of rooms, requiring many monitors and alarms.

Two independent alarm levels are pre-set on the base unit. These provide a 'Warning Alarm' at >1.5% and a 'Critical Alarm' at >3%. Audible alarms are 85dBA at 30cm. If required, in noisy environments, a klaxon/Xenon beacon can be fitted to provide an output in excess of 110dB.

Item	Part Number
Base Sensing Module – mains powered	QFM440
Base Sensing Module with relay output – mains powered	QFM440R
Remote Alarm Repeater with LCD Display	QRD440
Remote Alarm Repeater(no LCD display)	QRA440
Remote Mains Powered Repeater with options for beacon, loud audible alarm, display and relay for use with one base sensing module – ideal for noisy environments	QRL440/1 (OPTIONS D/K/X)
Remote Mains Powered Repeater with options for beacon, loud audible alarm, display and relay for use with two to four base sensing modules – ideal for noisy environments	QRL440/4 (OPTIONS D/K/X)

QFM440/QFM440R MAINS POWERED MONITOR/ALARM UNIT

Dimensions	150 (high) x 90 (wide) x 50 (deep) mm.	
Weight(excl cable)	550g	
Indications and alarms	WARNING ALARM	(Red flashing led + audible bleep)
	CRITICAL ALARM	(Red flashing led + audible bleep)
	POWER INDICATION	(Green LED)
	LOW BATTERY INDICATION	(Red LED)optional(battery back-up)
	SERVICE	(Amber LED/Constant Tone - failure of electronic circuitry & optical system)

QRD440 MONITOR/ALARM UNIT WITH LCD DISPLAY

Dimensions	130 (high) x 105 (wide) x60 (deep) mm.	
Weight(excl.cable)	450g	
Indications and alarms	WARNING ALARM	(Red flashing led + audible bleep)
	CRITICAL ALARM	(Red flashing led + audible bleep)
	POWER WARNING BASE UNIT	(Red constant led + constant tone)
	BATTERY WARNING REMOTE UNIT	(Red constant led + constant tone)
	DISPLAY	(Analogue panel meter)

QRA440 MONITOR/ALARM UNIT

Dimensions	130 (high) x 105 (wide) x60 (deep) mm.	
Weight(excl.cable)	450g	
Indications and alarms	WARNING ALARM	(Red flashing led + audible bleep)
	CRITICAL ALARM	(Red flashing led + audible bleep)
	POWER WARNING BASE UNIT	(Red constant led + constant tone)
	BATTERY WARNING REMOTE UNIT	(Red constant led + constant tone)

QRL440 MAINS POWERED REMOTE UNIT WITH OPTIONS FOR BEACON/AUDIBLE ALARM/LCD DISPLAY & RELAYS

Dimensions	280 (high) x 105 (wide) x60 (deep)mm	
Weight(excl.cable)	-1000g	
Indications and alarms	WARNING ALARM	(Red flashing led + audible bleep)
	CRITICAL ALARM	(Red flashing led + audible bleep)
	POWER WARNING BASE UNIT	(Red constant led + constant tone)
	BATTERY WARNING REMOTE UNIT	(Red constant led + constant tone)
	DISPLAY (D)	(Analogue panel meter)
	XENON FLASHING BEACON(X)	
	AUDIBLE ALARM (K)	

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