

Repeater Modules

GAS MONITORING & ALARM SYSTEMS

Easy to install wall mounted range of repeater modules which connect to Quantum fixed gas monitors to provide a warning to the user regarding the safety of the monitored area with visual and audible alarms when oxygen concentrations in the air surrounding the monitor fall outside pre-set levels.

KEY FEATURES

CryoPanel 1

- > Large, clear, easy to read, battery powered repeater with LCD display for safe readings of O₂, CO₂, CO, H₂ concentrations away from the monitored point.
- > Built in visual and audible alarms.

AirAlert QBA330

- > Clear easy to read repeater providing traffic light signals (Red/Amber/Green) regarding the safety of the monitored area.

CryoPanel 4, 8 and 12

- > Centralised monitoring at a single point of gas monitors and other laboratory cryogenic equipment (see separate CryoPanel datasheet for full specification).



APPLICATIONS

Quantum repeater modules allow customisation of each system to suit every application. The range offers a CryoPanel 1 battery powered repeater with LCD display to show O₂, CO₂, CO, H₂ concentrations and provide a warning alarm in a safe location away from danger. The AirAlert QBA330 gives a highly visual Red/Amber/Green traffic light warning of the safety of the monitored area. CryoPanel 4, 8 and 12 extend gas monitoring at a single panel to include many other types of cryogenic equipment including freezer alarms, fan interfaces, safety valves and lone worker alarms.

Repeater Modules

OXYGEN MONITORING & ALARM SYSTEM

TECHNICAL SPECIFICATIONS

CryoPanel 1

Dimensions	H130 x W105 x D60 mm
Weight	450g
Alarm Indications	ALARM – red flashing LED + audible bleep BATTERY – red constant LED + constant tone DISPLAY – Digital LCD 15–25% oxygen

AirAlert QBA330

Dimensions	H130 x W105 x D60 mm
Weight	450g
Alarm Indications	Green (Normal), Amber (Low Alarm), Red (Critical Low Alarm) Audible – 85dBA at 30cm

CryoPanel 4, 8 and 12

Dimensions	CryoPanel 4 – H180 x W265 x D82 mm CryoPanel 8 – H523 x W295 x D74 mm CryoPanel 12 – H637 x W295 x D74 mm
Weight	CryoPanel 4 – 750g CryoPanel 8 – 6kg (Stainless Steel Panel) CryoPanel 12 – 7.2kg (Stainless Steel Panel)
Alarm Indications	LCD – W130 x H75 mm Audible – 85dBA at 30cm

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.
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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.
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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.



REPEATER OPTIONS

PART NO.	DESCRIPTION
CryoPanel 1	Single channel repeater with LCD display to show oxygen concentration & mimic alarms; includes 10m interconnecting cable.
AirAlert QBA330	Repeater with traffic light indications and audible alarm.
CryoPanel 4, 8 and 12	Cryogenic central monitoring panel for 1–4 (CryoPanel 4), 1–8 (CryoPanel 8), or 1–12 (CryoPanel 12) QFM330 gas monitors and other laboratory monitoring devices. Standard facility for BMS, safety valve control & extraction systems.

ACCESSORIES

PART NO.	DESCRIPTION
AirAlert QAL200	Siren/Beacon alarm.
QCA200	CryoAlert button.
QM24VBAT	Battery back up for mains powered repeaters.
QAD200/GSM	Auto dialler (transmits alarm to mobile network).
MSB100	Mains switching box to provide interface between low voltage relays and mains rated devices.