

# CryoPanel

## CRYOPANEL MONITORING PANEL

CryoPanel has been designed to eliminate the need for multiple separate monitoring panels for cryogenic laboratory management. CryoPanel monitors gas levels in up to 12 monitoring devices and provides customised interfaces for many other types of lab monitoring equipment including freezer alarms, fan interfaces, safety valves and lone worker alarms.

### KEY FEATURES

#### CryoPanel 1

- > Large, clear, easy to read, battery powered repeater with LCD display for safe readings of O<sub>2</sub>, CO<sub>2</sub>, CO, H<sub>2</sub> concentrations away from the monitored point.
- > Built in visual and audible alarms.

#### CryoPanel 4, 8, 12

- > Large, clear easy to read pictorial back lit LCD display for easy interpretation of information.
- > Easy user programming for customised applications with no requirement for computerised programming.
- > Alarm connections for AirSafe monitors (enrichment or deficiency), low level alarms, freezer alarms, CryoAlert buttons & fan interfaces.
- > CryoPanel provides up to 12 gas monitor connections.
- > Communication output for logging.
- > Dedicated connections to BMS systems & GSM diallers.
- > Compatible with third party equipment
- > Valve monitoring facility

#### CryoPanel 4+, 8+, 12+

- > As above.
- > Optional communication via GPRS/GSM/Bluetooth to CryoHub our cloud-based data logging and alert system for current and historic data on oxygen levels and alarms.



### APPLICATIONS

CryoPanel is designed to provide centralised monitoring at a single panel of many different types of lab monitoring equipment that have previously been separately located, including up to 12 AirSafe gas monitors. The panel is suitable for use with new laboratory installations and for retrofit as it may be connected to most third-party monitoring equipment. This system provided a solution to the incompatibility issues of the huge variety of equipment being used in cryogenic labs. CryoPanel.

CryoPanel+ builds on the facilities of CryoPanel offering a powerful IoT system offering full connectivity for the devices monitored to our state-of-the-art cloud based CryoHub data logging and alert software.

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## CRYOPANEL MONITORING PANEL

### 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

#### CryoPanel 4/8/12/+

Dimensions	4/4+ – H180 x W265 x D82 mm 8/8+ – H535 x W305 x D75 mm 12/12+ – H610 x W365 x D75 mm
Weight	4/4+ – 750g 8/8+ – 6kg (Stainless Steel Panel) 12/12+ – 7.5kg (Stainless Steel Panel)
Alarm Indications	LCD – W130 x H75 mm Audible 85dB at 30cm
Default Alarm Settings (user adjustable)	Each alarm is independent and can be transmitted to different user groups

### SERVICE AND SUPPORT

**Calibration** It is recommended that all products are calibrated at least every 12 months, either on site or at Quantum Cryogenics. We offer an annual calibration service with certified test gases for precise checking alarm levels and documentation.

**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
<b>AirSafe</b>	Range of gas monitors
<b>AirAlert</b>	QBA330 - Status indicator showing safe/unsafe condition QAL200 - Flashing siren beacon
<b>CryoHub</b>	Cloud-based data logging and alert system

### EQUIPMENT CONNECTION OPTIONS

- CryoGauge – Capacitance or Differential Pressure
- Optional Cloud Based Monitoring System via GPRS/GSM/Bluetooth/hard wired
- BMS alarm interface
- Extraction System
- Safety Valve
- AirSafe Gas Monitors

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