

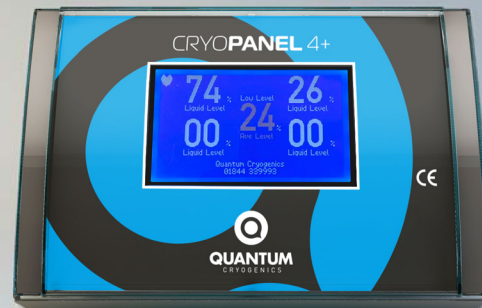
CryoPanel+

CRYOGENIC IoT VESSEL MONITORING AND ALARM SYSTEM

CryoPanel+ provides a powerful fully bluetooth compatible system for level and pressure monitoring on multiple cryogenic vessels. The panel connects to the new Quantum IoT gauges and pressure sensors for ease of installation. The display can be fully customised to show level or pressure readings, with an additional reading of the average level for specific vessel groups defined by the user. CryoPanel+ provides three independent alarms not only for each vessel but also for any averaged group of vessels created by the user.

KEY FEATURES

- Large, clear easy to read pictorial back lit LCD display for easy interpretation of information.
- Fully compatible with Quantum IoT Capacitance/Differential Pressure Gauges and Pressure Sensors.
- Bluetooth/hard wire compatibility.
- Low level alarms can be set to communicate with different user groups based on the average level on all vessels monitored.
- CryoPanel provides up to four, eight or twelve level and pressure connections depending on the model selected (larger panels available upon request).
- Test facility to allow users to independently test alarms/settings without needing to adjust liquid levels.
- Optional communication via GPRS/GSM to a cloud based storage system for current and historic data on fill patterns and alarms.
- Three independent user defined alarm levels for each vessel monitored and also for vessel averages.
- Easy user programming for customised applications with no requirement for computerised programming.



APPLICATIONS

CryoPanel+ is designed to provide centralised monitoring at a single panel of a bank of pressurised vessels to provide level and pressure readings.

The system is invaluable in healthcare and other settings to ensure that cryogenic liquid supplies are maintained by providing live data and warnings when critical levels are reached.

The alarms for each vessel and group of vessels can be set by the user to provide warning, low and critically low alarms to different user groups to ensure that cylinder banks never run out of liquid and that safe pressure levels are maintained.

CryoPanel+

CRYOGENIC IoT VESSEL MONITORING PANEL

TECHNICAL SPECIFICATIONS

CryoPanel 4+ – Cryogenic Panel with input for 1-4 level/pressure devices

Dimensions	H180 x W265 x D82 mm
Weight	750g
Alarm Indications	LCD – W130 x H75 mm Audible 85dB at 30cm

CryoPanel 8+ – Cryogenic Panel with input for 1-4 level/pressure devices

Dimensions	H540 x W2310 x D80 mm
Weight	6000g
Alarm Indications	2 x LCD – W130 x H75 mm Audible 85dB at 30cm

CryoPanel 12+ – Cryogenic Panel with input for 1-4 level/pressure devices

Dimensions	H1610 x W360 x D80 mm
Weight	7500g
Alarm Indications	3 x 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
--	---

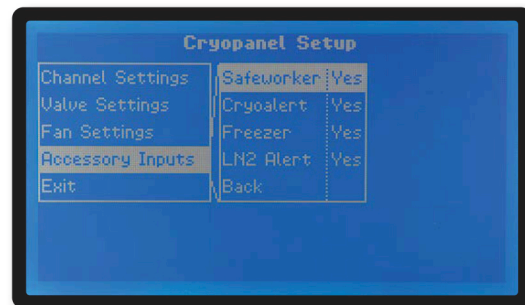
SERVICE AND SUPPORT

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
CryoGauge IoT	Capacitance Level Gauge with Bluetooth or hard wired connection
CryoGauge 242	Capacitance Gauge with hard wired connection
CryoGauge DP IoT	Differential Pressure Level Gauge with Bluetooth or hard wired connection
Pressure Gauge	Range to suit
GPRS/GSM	Optional cloud based storage system of live and historic data including alarms

EQUIPMENT CONNECTION OPTIONS

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

Engineering

Quantum Cryogenics
Unit 13 Langley Business Court
Worlds End
Newbury
Berkshire RG20 8RY

Service

Quantum Cryogenics
Unit 1A Ethmar Court
Mid Devon Business Park
Willand
Devon EX15 2FB

Head Office

Quantum Cryogenics
Unit B Cranmere Court
Exeter Road Industrial Estate
Okehampton
Devon EX20 1UE