

QLA100

LIQUID NITROGEN LOW LEVEL ALARM

The QLA100 Liquid Nitrogen Low Level Alarm consists of a level sensor, monitor/alarm unit (with visual and audible alarms) and a low output voltage power supply unit. Designed for automatic monitoring of liquid nitrogen levels in all unpressurised vessels and refrigerators. High Level option available; making it an ideal solution for secondary independent over-fill monitoring of bio-storage freezers.

KEY FEATURES

- Continuously monitors levels of liquid nitrogen..
- Adjustable sensor position.
- Built in visual and audible warnings if level becomes 'Low'. 'High' level option available.
- Connection for remote alarm (dry contact) to in house monitoring systems, auto dial units. The QLA100T option provides a user-defined time delay on the alarm output.
- Easy to fit and install.
- Compact and lightweight.
- Reliable and maintenance free.
- Independent warning of sensor damage.
- Stand alone or multiple vessel monitoring system (QLA100L).
- Optional sensor mounting kit.
- Sensor occupies negligible space in vessel.
- For use with liquid nitrogen refrigerators, cryostats, vessels, dewars and cold traps.
- The sensible precaution for all valuable refrigerated samples and all processes where liquid nitrogen must not run out.



APPLICATIONS

The monitor/alarm unit continuously monitors the signal from the level sensor and houses the audible and visual alarms. It can be fitted to the body, lid, neck or carrying handle of a liquid nitrogen container or mounted on a nearby wall or surface. The unit is supplied fitted with 'Velcro' pads but can be secured equally well to a solid surface with screws. The compact power supply unit is fully enclosed in a robust, moulded case. It provides a low voltage output (15V. d.c.) through an interconnecting cable to the monitor/alarm unit, backup power supply available.

The level sensor is placed in the vessel at the required level. When liquid nitrogen covers the level sensor the green 'Normal' light is lit; when the liquid nitrogen level falls below that of the level sensor, the red alarm light flashes and the audible alarm bleeps. At the same time any suitably connected external alarm is activated. If the level sensor, for any reason, should be damaged, short circuited or removed, the unit emits a constant audible tone.

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TECHNICAL SPECIFICATIONS

QLA100 Dimensions	W80 x H100 x D40mm
Power Supply Unit	W60 x H55 x D90mm
Dimensions	15V DC supplied with product
Power Requirements	Mains powered 240/220V, 50/60Hz (110V available)
Interconnecting Cable	Length 2 metres, voltage 15V DC
Sensor Lead	Length 1.5 metres, diameter 2.5mm (other lengths available as required)
Level Sensor	Length 6mm, diameter less than 4mm

EQUIPMENT OPTIONS

QLA100T	Timer delay option
QLA100L	Multiple vessel monitoring option
QLA100TL	Timer delay and multiple vessel monitoring option

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
QAD200	Auto Dialler Unit – fixed line
QAD200/GSM	Auto Dialler Unit – mobile network (user to provide SIM card)
QM12VBAT	Backup Power Supply Unit
QLA101	Sensor Location Kit
QLA102	Sensor Location Probe
QLC150	Replacement sensor – 1.5m cable
QLC250	Replacement sensor – 2.5m cable
QLC350	Replacement sensor – 3.5m cable

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