

LIQUID NITROGEN LOW LEVEL ALARM : QLA-100

Automatic Monitoring of Liquid Nitrogen Levels With Visual & Audible Alarms



- * Continuously monitors levels of liquid nitrogen
- * Visual & audible warning if level becomes 'Low'
- * Built in audible & visual alarms
- * Connection for remote alarm system
- * Easy to fit & install
- * Compact & lightweight
- * Fail-safe alarm if sensor is damaged
- * Reliable & maintenance free
- * 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.

The QLA-100 Liquid Nitrogen Low Level Alarm consists of a level sensor, monitor / alarm unit and a low output voltage power supply unit.

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 can be 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.

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OPERATION

The level sensor is placed in the vessel at the required 'Low' level, the monitor / alarm unit is fixed in place and the power supply unit is connected to the electrical mains.

When liquid nitrogen covers the level sensor the green 'Normal' light is lit. However, when the liquid nitrogen level falls below that of the level sensor, the red alarm light flashes and the audible alarm beeps. 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.

TECHNICAL SPECIFICATION

Power Requirements	240 / 220 V, 50 / 60 Hz (110 V Available)
Power Supply Unit Dims	60 (wide) x 55 (high) x 90 (deep) mm
Output Voltage	15 V d.c. (Approx.)
Monitor / Alarm Unit Dims	80 (wide) x 100 (high) x 40 (deep) mm
Interconnecting Cable	Length 2m, Voltage 15V d.c.
Sensor Lead	Length 1.5m, Diameter 2.5 mm
Level Sensor	Length 6 mm, Diameter <4 mm