



QLA100

LIQUID NITROGEN LOW LEVEL ALARM



- Automatic monitoring of liquid nitrogen levels
- For use with all low pressure vessels, refrigerators, cryostats, dewars and cold traps
- Continuous monitoring
- Adjustable sensor position
- Built in visual and audible warnings if level becomes 'Low'
- Easy to fit and install
- Reliable and maintenance free
- Compact and lightweight
- Independent warning of sensor damage
- Stand alone or multiple vessel monitoring system

- Connection for remote alarm and to in house monitoring systems
- Remote alarm panel available incorporating inputs from up to 20 low level alarms and including klaxon and Xenon beacon, ideal for noisy environments
- Telephone Auto Dialler available, for automated transmission of alarms to pre determined numbers
- Optional sensor mounting kit
- Sensor occupies negligible space in vessel
- Essential for all valuable refrigerated samples and all processes where liquid nitrogen must not run out
- Consists of a level sensor, monitor/alarm unit and a low output voltage power supply unit.
- Unit 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.

Supplied fitted with 'Velcro' pads but can be secured to any solid surface with screws.

Quantum Production Ltd

Unit 25, Wormal Park Estate, Menmarsh Road, Worminghall, Buckinghamshire, HP18 9PH
Tel: +44 (0) 1844 339993 Fax: +44 (0) 1844 339996 www.quantumproduction.co.uk



- 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.
- Both audible alarm and flashing LED to denote low levels of liquid nitrogen
- LED to signify normal operation and audible alarm to indicate damage to the sensor

TECHNICAL SPECIFICATION

Dimensions:	80 x 100 x 40 mm (w,h,d)
Level Sensor:	Length 6 mm, Diameter less than 4 mm
Sensor lead:	Length 1.5 metres, Diameter 2.5mm (other lengths available)
Power requirements:	Mains Powered 240/220V., 50/60 Hz. (110 V. available)
Power supply:	60 x 55 x 90 mm (w,h,d) 15V d.c.
Interconnecting cable	Length 2 metres 15V. d.c.

ORDERING INFORMATION

Part Number	Details
QLA100	Low Level Alarm
QIA100L	Low Level Alarm Control Unit – for use with multiple vessel systems when using QRA100 Central Remote Alarm Panel
QLA101	Sensor Locating Kit for positioning sensor in vessel
QAD200	Telephone Auto-dialler to automatically dial up user pre-determined numbers
QRA100	Central Remote Alarm Panel incorporating inputs for up to 20 Low Level Alarms Includes klaxon and beacon – ideal for noisy environments and relay outputs for remote connection to ancillary equipment
QLA100C	Connector
QLC100	1.5m sensor lead

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EC DECLARATION OF CONFORMITY

ELECTROMAGNETIC COMPATIBILITY

SAFETY REQUIREMENTS FOR ELECTRICAL EQUIPMENT FOR MEASUREMENT, CONTROL AND LABORATORY USE

COMPANY NAME : QUANTUM PRODUCTION LIMITED
COMPANY ADDRESS : Units 1 – 3 Hatherleigh Industrial Estate
Hatherleigh, Devon, England
APPARATUS NAME : QLA100 & QLA100L
APPARATUS DESCRIPTION: Liquid Nitrogen Low Level Alarm

SPECIFICATIONS UNDER WHICH CONFORMITY IS DECLARED:

Standard	Description	UKAS/non-UKAS	Pass / Fail
EN 61326-1: 2006	Electrical equipment for measurement, control and laboratory use – EMC requirements		
EN 55011: 1998 A1 A2	Conducted RF Emissions	UKAS	Pass
EN 55011: 1998 A1 A2	Radiated Emissions	UKAS	Pass
EN 61000-4-2: 1995 A1 A2	Electrostatic Discharge	UKAS	Pass
EN 61000-4-3: 2002	Radiated RF Immunity 80 MHz to 2.7 GHz	UKAS	Pass
EN 61000-4-4: 2004	Fast Transient and Burst Immunity	UKAS	Pass
EN 61000-4-5: 1995 A1	Surge Immunity	UKAS	Pass
EN 61000-4-6: 1996 A1	Conducted RF Immunity	UKAS	Pass

EN 61000-4-11: 2004	Mains Dips and Interruptions	UKAS	Pass
EN 61000-4-8: 1994 A1	Power Frequency Magnetic Field Immunity	UKAS	Pass
EN 61000-3-2: 2006	Harmonics	UKAS	Pass
EN 61000-3-3: 2008	Flicker	UKAS	Pass

TESTED BY:

Electronic Test & Calibration Ltd. Caddsdwn
Industrial Park, Clovelly Road, Bideford, EX39 3DX

IDENTIFICATION OF SIGNATORY EMPOWERED TO BIND THE MANUFACTURER
OR HIS AUTHORISED REPRESENTATIVE

MANUFACTURER OR AUTHORISED REPRESENTATIVE:

MANUFACTURER

DATE: 15/06/2012

SIGNATURE:



NAME AND POSITION:

David Thornton-Wood

DIRECTOR.