

CryoGauge 242

LIQUID LEVEL CAPACITANCE GAUGE

The CryoGauge 242 provides reliable and accurate determination of liquid levels for most non-conducting fluids. The gauge is particularly suitable for use with liquid nitrogen, argon, oxygen and carbon dioxide. Designed for use in pressurised cryogenic vessels, the gauge can be used as a stand-alone device or linked to a telemetry module to provide remote monitoring of liquid levels.

KEY FEATURES

- High impact resistant polycarbonate housing and stainless steel probe that can be sited externally (IP67).
- Probe easily fitted into pressure vessels, tested to 1000psi.
- Optional vessel fittings available to suit most vessel types.
- Powered by internal battery with display showing level inside vessel at all times, no need to press a button to read level.
- Easy to read digital display with lightweight compact gauge head attached to stainless steel probe. Remote panel mounted gauge head provided for larger vessels.
- Option for low level alarm facility and remote display (CryoGauge 242 Repeater) allowing monitoring at up to 100m from the vessel on site.
- Option for telemetry allows completely flexible monitoring away from site & internet level monitoring. SIM card owned and controlled by the user. Facility to dial in by the users and receive text message of vessel liquid level & alarms.



APPLICATIONS

The CryoGauge 242 is designed to allow the user to monitor liquid levels both locally or remotely as desired. A range of options is available to incorporate local alarms at pre-set levels, connection to in-house BMS systems, remote display at a point away from the vessel or proactive interrogation of liquid levels by the user using a mobile phone. Data can also be accessed via the internet to keep records of liquid levels and alarm activity.

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TECHNICAL SPECIFICATIONS

Dimensions	H120 x W80 x D55 mm (excl. probe)
Weight	0.5kg
Probe	Stainless steel, Diameter 8mm, Length to suit vessel
Gauge Enclosure	Polycarbonate/IP67
Max. operating pressure	1000psi
Temperature/Humidity	(-10) to 40°C/0-90%RH (electronics)
Output Telemetry	0-5V, 4-20mA output
Power Source	1.5V using AA battery, 10-24V DC from external source, 50mA

EQUIPMENT OPTIONS

PART NO.	DESCRIPTION
CryoGauge 242/OXY	CryoGauge 242 level gauge suitable for oxygen use.*

*Specify vessel type at point of order.

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 242 Repeater	Remote display unit with dual alarm and 24V PSU cable up to 100m
QAD200/GSM	Auto Dialler Unit – mobile network (user to provide SIM card)
QM12VBAT	Battery backup PSU
CryoTel	Software to allow remote monitoring of levels/alarms using Quantum secure server for data storage
Vessel Adapter	A vessel adapter is required to fit your Quantum level probe. Our standard range is listed below, please ask for any special requirements you may have. 1/2" BSP 3/8" BSP 7/8" UNF & 'O' Ring 1/4" BSP 3/4" UNF + PTFE Ring

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