

Maritime



The G3600/3601 Inert Gas Oxygen Analyzing System is designed to accurately monitor and control the content of oxygen in inert gas systems to enhance vessel safety, thus protecting cargo, ships, and crew.



Robust and reliable monitoring

Key features

- Protects cargo, ship, and crew
- Simple installation, operation, and maintenance
- Simple calibration by crew
- Automatic artificial calibration
- Configurable measuring range and signal outputs
- Low cost of ownership
- Graphic display interface via touch screen
- Global service and support

Green Instruments oxygen analyzers provide user-friendly and robust monitoring in marine environments, ensuring accurate and reliable oxygen measurements. Inert gases are gases with a low concentration of oxygen that are used to fill void spaces in and around oil tanks. Oxygen analyzers are used to prevent combustible atmospheres. Having an oxygen analyzer on board is crucial for enhancing and maintaining vessel safety. Tankers are also required by

safety inspectors to document their safety when loading and discharging at ports.

Simple operation

The heart of each oxygen analyzer is a microprocessor-based unit with a simple menu structure, ensuring fast set-up. The oxygen analyzers are designed for easy replacement of parts and simple system calibration. They use a zirconia sensor cell, which is well-proven and reliable sensor technology.





G3600



Configurable measuring and signal outputs

The G3600 and G3601 oxygen analyzer boards are ideal for standalone operation with output to other systems. Monitoring and signal output range are fully scalable according to needs and requirements.

G3600: Single board – an inexpensive and compact analyzer G3601: Double board – for cost effective redundancy and versatility The G3601 ensures system redundancy, eliminating reliance on one sensor and analyzer, and

ensuring fail-safe if one sensor or analyzer malfunctions. This means that customers avoid costly delays caused by a system failure.

MED approved oxygen analyzers

The core of the system is the G36 Oxygen Analyzer. The G36 is approved under the European Marine Equipment Directive (MED), becoming the first system to be certified under the new heading A 1/3.54 for fixed oxygen analyzers. It is mandatory for fixed oxygen analyzers to have MED type

approval on both European and Norwegian flagged ships.

Service and support

The G3600/3601 Inert Gas Oxygen Analyzing System is simple to install and have a low cost of ownership. Consumable parts are easy to replace by the crew. In the event that assistance is required, for example with the replacement of parts or with retrofitting, Green Instruments provides full service and support to ensure optimal operation throughout the entire product lifetime.

Certificates















Specifications - G3600/3601

ANALYZER

Power supply Standard 100 - 230 VAC, 50/60 Hz Ambient temperature 0-55°C Communication Output signal 4 - 20 mA - range selectable Default: 0 - 25 % Max load signal 600 Ω / 24 VDC Measurement Sensor technology Zirconia type sensor 0-21%02 Measurement range Repeatability ± 0.1 % of the measurement range Accuracy ± 0.5 % of the measurement range Response time 90 % of measuring scale in less than 45 sec. with sample flow rate of 0.8 I/min sample line of 1 meter Material/enclosure Enclosure IP 67 **Dimensions/weight** Dimensions 170 x 200 x 90 mm Weight 2.5 kg (without packaging)

BOARD SPECIFICATIONS

Sample specification	Pressure: 0.05 – 1 bar Flow: 2 – 8 l/min Temperature: 0 – 70 °C
Zero test gas	Max 10 bar - 1/8" BSP connection
Span test gas	Max 10 bar - 1/8" BSP connection
Sample manifold	3 ports - 1/8" BSP connection
G3600 single board	600 x 500 x 140 mm / weight: 12 kg (without water and packaging)
G3601 double board	610 x 790 x 140 mm / weight: 20 kg (without water and packaging)

OPTIONAL EQUIPMENT

Expand a single board to a double board for redundancy
0.2 – 10 l/min
24 VDC – panel mounted
Pre-filter for sample gas

Specifications subject to changes without notice

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