Ribble Enviro

*...everything gas detection*

# Data Sheet

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G36a/G36p

# Oxygen Analyzers

*G36p*

## The G36a and G36p Oxygen Analyzers

Our G36a and G36p oxygen analyzers are customizable and suitable for many applications. The G36a oxygen analyzer is a standalone box for modular system integration. It is part of the unit but can also be purchased as a spare part. The G36p, on the other hand, is designed for panel mounting. Both analyzers can be purchased as a kit solution, which includes a sensor and several sensor parts.

## MED approved oxygen analyzers

The oxygen analyzers are approved under the European Marine Directive, becoming the first system to be certified under the new heading A 1/3.54 for fixed oxygen analyzers. It is mandatory to have MED type approval on both European and Norwegian flagged ships.

## Service and support

The G36a and G36p oxygen analyzers are simple to install and have a low cost of ownership. 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.

## Key features

- Graphic display - interface via touch screen
- High sensor stability with full temperature control
- Analyzer diagnostics and information page
- Data logging including alarm history
- Simple software upgrades
- Global service and support

*G36a*

Green Instruments

# Specifications – G36a/36p

## ANALYZERS

- G36a: Inclusive fixed analyzer
- G36p: External analyzer

### Power supply

| | G36a | G36p |
|---|---|---|
| Standard | 100 – 230 VAC, 50/60 Hz | 24 VDC |
| Power consumption | 40 VA per analyzer | |
| Ambient temperature | -15 - 55 °C | 0 - 70 °C |

### Material/enclosure

| | | |
|---|---|---|
| Digital display | 71 x 39 mm touch screen with trend graph display | |
| Enclosure | IP 67 | IP 55 if panel mounted |
| Sensor technology | Zirconia type sensor | |

### Measurement

| | |
|---|---|
| Measurement range | 0 – 21 % $O_2$ |
| Repeatability | ± 0.1 % of the measurement range |
| Accuracy | ± 0.5 % of the measurement range |

### Communication

| | |
|---|---|
| Output signal | 2 x 4 – 20 mA – range selectable<br>Default: 0 – 25 % $O_2$ |
| Max load signal | 600 Ω / 24 VDC |
| Alarm relays | 4 relays, volt free, 24 VAC/DC, 5 A for $O_2$ low or high; $O_2$ high-high; systems fail |
| Response time | 90 % of full scale in less than 45 sec. |
| Datalog | History and alarm logs on SD cards |

## APPLICATIONS

| Application type | Application description | Measurement principle |
|---|---|---|
| Oxygen content in inert gas after inert gas generators (with dedicated burner), inert gas systems (based on boiler flue gas), or nitrogen generators | Void spaces in oil tankers, product carriers, chemical tankers, and other storage vessels must be filled with controlled oxygen content for explosion protection | The surplus pressure in the inert gas system is used to supply samples to the oxygen analyzer. The oxygen analyzer requires a sampling system that controls pressure variations and the supply of sample gases and calibration gasses |
| Oxygen content in flue gas after boilers, generators, or biogas heating plants | Combustion efficiency can be optimized when knowing the oxygen content of the flue gas. This can yield significant fuel savings as well as lead to cleaner combustion and less maintenance | In-situ and direct monitoring with a stack probe |

Specifications subject to changes without notice

## CERTIFICATES


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