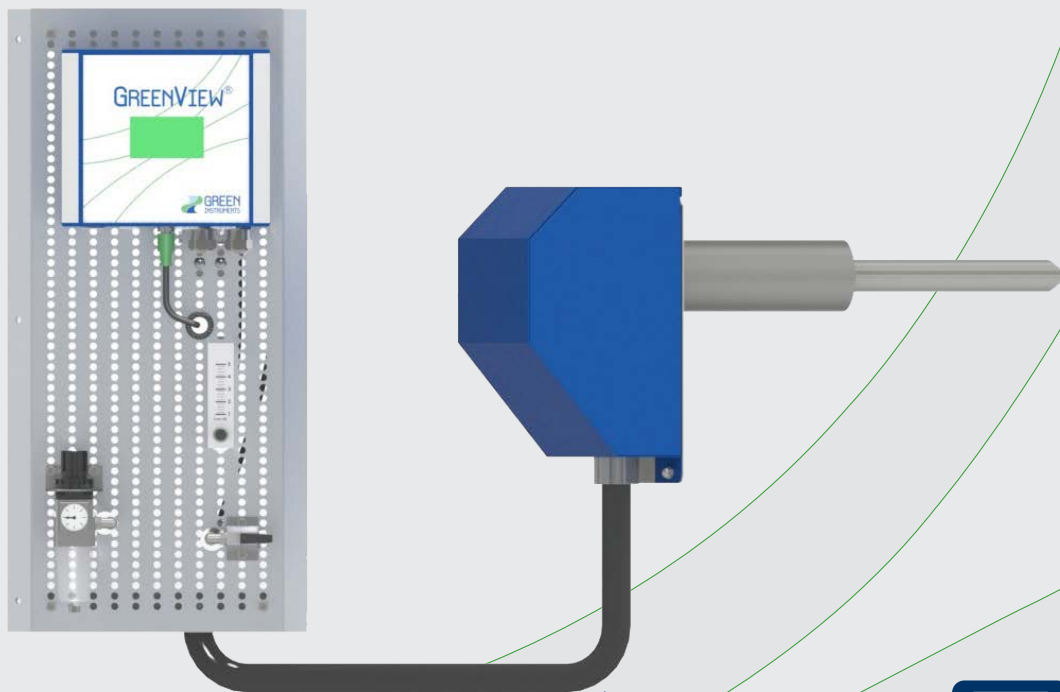
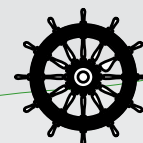


G3621a/G3621p

Stack Gas Oxygen Analyzing System With Diffusion Probe



Perfecting Sensible Technology



The G3621a/p Stack Gas Oxygen Analyzing System is designed to measure the content of oxygen in stack gas. The compact design provides a range of configuration possibilities, outstanding performance, reliable and in situ real time monitoring.

The system primarily consists of an analyzer (G36a or G36p), an analyzing board, umbilical cord and a diffusion probe.

The Diffusion Probe

Green Instruments recently developed a new diffusion probe that has several advantages in comparison with the ejector probe.

The ejector probe has a built-in ejector that drives the pump drawing the sample gas into the measuring chamber ensuring a fast response time. The ejector probe requires an estimated air consumption of min. 2l/min at 1 bar.

In the diffusion probe, the gas is diffused to the mea-

suring chamber. Although its response time is not as quick as the ejector probe's, it is sufficient for most industrial applications.

Since the diffusion probe does not require ejecting air, it will mean high cost savings for the owner. Furthermore, a simple design also ensures less and easy maintenance.

Stand Alone or Panel Mounted Analyzers

The simple and self-explanatory design of the G3621 makes it easy to check the functionality of the analyzer.

The G3621 is delivered with the G36a or the G36p Analyzers. The G36a is mounted directly on the board, whereas the G36p is designed for panel mounting.



Specifications - G3621a/p SGOAS

	G36p	G36a
Measuring range	0.0...21.0 % O ₂	
Power supply	24 VDC	100...230 V AC 50...60 Hz
Output signal	2 × 4...20 mA – range selectable - default: 0.0...25.0 % O ₂	
Max. load signal	600 Ω / 24 VDC - loop powered by G36a/p	
Alarm relays	Volt free, 24 V AC/DC, 5 A for O ₂ low or high; O ₂ high-high; Systems fail	
Interface	Touch screen 71 x 39 mm with trend graph display	
Ambient temperature	0 °C to +70 °C	-0 °C to +55 °C
Dimensions	Panel cut: 154 × 73 mm (W×H) + Depth: 71 mm + cables Front: 178 × 95 mm (W×H)	170 × 200 × 90 mm (H×W×D) Cable glands at bottom
Enclosure	IP55 if panel mounted	IP67

Analyzing Board Dimensions

G3621a dimensions / weight	600 x 290 x 138 mm (H x W x D) / Approx. 6.0 kg incl. G36a Analyzer and without packaging
G3621p dimensions / weight	600 x 290 x 95 mm (H x W x D) / Approx. 4.0 kg incl. G36p Analyzer and without packaging
Test gas inlet	Max. 1 bar - quick coupling for 6 mm OD hose
Air supply inlet	Max. 8 bar - 1/8" BSP connection
Air supply quality	Instrument air according to ISO 8573-1 Class 3

Diffusion Probe

Sensor technology	Heated zirconia type sensor
Sample temperature	0 °C to +500 °C
Probe insert length	208...338 mm for duct diameters 235...2800 mm
Mounting type	Welding socket size OD: 70.0 mm L: 190 mm or thread size: 1½" BSP
Air supply connection for back-flushing & calibration	6/4 mm tubing
Calibration air flow	Approx. 0.5...1.0 l/min
Dimensions short / long / weight	Short: 285 x 180 x 475 mm (H x W x D) Long: 285 x 180 x 600 mm (H x W x D) Weight: Approx. 6.0 kg without packaging

Umbilical Cord

Cord length	3.0 m
Tubing	In 28 mm nylon conduit

