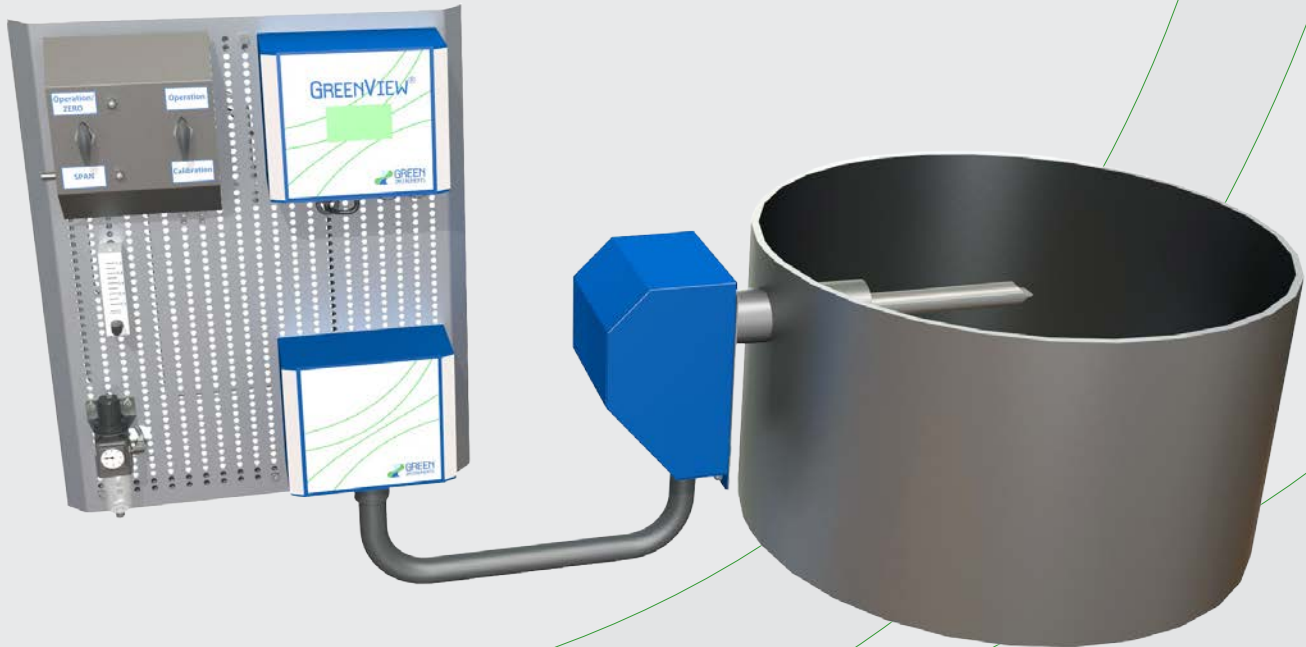


# G4130 NO<sub>x</sub>/O<sub>2</sub>

## Analyzing System

### With Diffusion Probe



## Perfecting Sensible Technology



The G4130 NO<sub>x</sub>/O<sub>2</sub> Analyzing System is a direct in situ gas analyzer that monitors NO<sub>x</sub> and O<sub>2</sub> concentrations in emission gas. It uses a zirconium oxide sensor with multiple diffusion cells which allows real time measurements on a wet basis at high temperatures.

### Simple, Reliable and Cost-effective System

The system can be used to document compliance of NO<sub>x</sub> limits that are implemented with the tightening of emission regulations.

It can also be used to control various after treatment processes. It can for example meet the challenging requirements for monitoring the inlet and outlets of selective catalytic reduction systems (SCR) on all types of combustion sources.

The system primarily consists of a G41 NO<sub>x</sub>/O<sub>2</sub> Analyzer, 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 measuring chamber. Although its response time is not as short 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.

# Specifications - G4130 NO<sub>x</sub>/O<sub>2</sub> Analyzing System

## Analyzer

Measurement range	NO <sub>x</sub> : 0...1500 ppm (F.S.) - O <sub>2</sub> : 0.0...21.0 % (F.S.)
Power supply	100...230 VAC - 50...60 Hz or 24 V DC. Consumption max. 40 VA per analyzer
Output signal	2 × 4...20 mA - range selectable - Default: For O <sub>2</sub> : 0.0...25.0 % For NO <sub>x</sub> : 0.0...2000 ppm
Max. load signal	600 Ω / 24 VDC
Alarm relays	Volt free, 24 V AC/DC, 5 A
Display	Touch screen 71 × 39 mm with trend graph display
Ambient temperature	-0...55 °C
Dimensions	H × W × D: 170 × 200 × 90 mm. Cable glands at bottom
Enclosure	Aluminum casing IP67

## Analyzing Board

Dimensions / Weight	H × W × D: 600 × 500 × 140 mm / approx. 10.0 kg without packaging
Span NO <sub>x</sub> gas connection	For 6/4 mm tubing - max 1 bar
Air supply filter regulator	1/8" BSP connection - max. 1 bar
Air supply quality	Instrument air quality according to ISO 8573-1

## Diffusion Probe

Sensor technology	Heated zirconia type sensor
Sample temperature	0...500 °C
Probe insert length	Approx. 208-338 mm - for duct diameters 235...2800 mm
Mouting 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 × 180 × 475 mm (H × W × D) Long: 285 × 180 × 600 mm / Weight: Approx. 6.0 kg without packaging

## Umbilical Cord

Umbilical cord	Length: 3.0 m
Tubing	28 mm nylon conduit

Specifications subject to changes without notice

