

# MoGas

## Medical gas analyser



The MoGas is a wall mounted medical gas purity analyzer and is designed for use in medical oxygen generation systems for checking the purity of the oxygen produced.

It measures oxygen, carbon dioxide and carbon monoxide concentrations for the monitoring of an oxygen generating system.

### Applications

#### A monitoring and analyzing unit for use in:

- Validation of medical oxygen generators
- Product purity on oxygen generators and compressed air systems
- Pharmaceutical
- Bottling/filling plant applications

### Features

- Measurement Ranges:  
Zirconia O<sub>2</sub> Sensor: 0-96% O<sub>2</sub>  
Infrared CO<sub>2</sub> Sensor: 0-1000ppm  
Electrochemical CO Sensor: 0-50ppm  
*Optional Paramagnetic Sensor 0-100%*  
*Optional moisture transmitter available*
- Measures up to four parameters simultaneously
- Large backlit LCD display of gas concentration
- Optional built-in audible and visual alarms
- Programmable O<sub>2</sub>, CO and CO<sub>2</sub> alarms output
- Output - 4-20mA per channel.  
One common fault relay.

**Simple to install**  
**Easy to operate**

Sensor	Type	Power supply	System output	Response time	Temperature	Sensitivity
O <sub>2</sub>	Zirconia	100-240 VAC	4-20 mA	T90 < 3s	-20°C to +50°C	0.1%
CO	Electrochemical	100-240 VAC	4-20 mA	T90 < 20s	-30°C to +50°C	0.3ppm
CO <sub>2</sub>	Infrared	100-240 VAC	4-20 mA	T90 < 20s	-20°C to +50°C	3ppm
O <sub>2</sub>	Paramagnetic	100-240 VAC	4-20 mA	T90 < 3s	+5°C to +45°C	0.2%

Zirconia or paramagnetic option

# MoGas gas analyzer Product specifications

## Standard dimensions

422mm (w) x 360mm (h) x 188mm (d)

## Weight

16kg

## Measurement ranges

0-96% Oxygen (zirconia)  
 0-100% Oxygen (paramagnetic)  
 0-1000ppm Carbon dioxide (infrared)  
 0-50ppm Carbon monoxide (electrochemical)  
*Moisture option available*

## Power requirements

100-240 VAC / 50-60 Hz power supply

## Enclosure

Painted mild steel. (RAL 9010)

## Visual indication

LCD display

## Alarm levels

Output - 4-20mA per channel.  
 One common fault relay.  
 2 Alarm Contacts per Channel.

## Sample gas

Positive pressure samples up to 10 BARG.  
 Regulated with enclosure.

## Sample connection

6mm / 1/4"

## Electrical connections

Two-off M20 gland entry holes

## User interface

4 button multifunctional keypad

## Temperature range

Overall operating: -20°C to +50°C

## Environmental rating

IP65

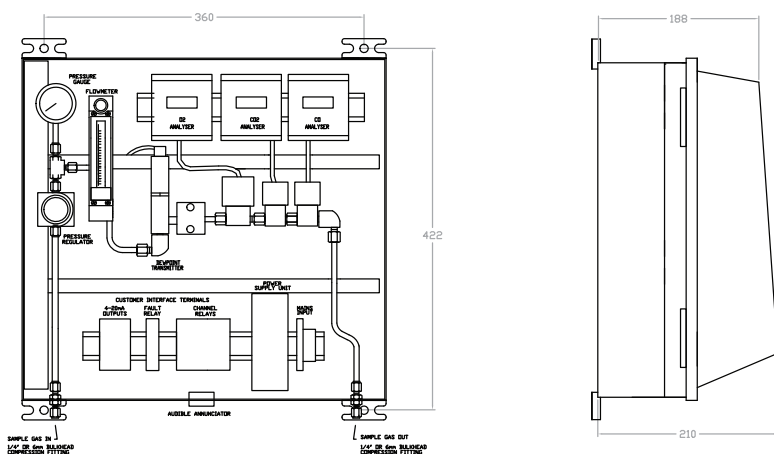
## Humidity range

15% to 95% relative, non-condensing

## Electromagnetic compatibility

CE marked and tested to EN61000-6-4;  
 EN61000-6-2; EN55022; EN61000-3-3;  
 EN61000-3-2

# MoGas gas analyzer Technical drawing



# MoGas gas analyzer Ordering information

Product	Sensor types	O2 sensor type	Sample connection	Power supply	Part No.
MoGas-1	O <sub>2</sub> / CO / CO <sub>2</sub>	Zirconia (0-96%)	6mm (metric)	20-240 vac / 50-60 Hz	02-715
MoGas-1	O <sub>2</sub> / CO / CO <sub>2</sub>	Zirconia (0-96%)	1/4" (imperial)	120-240 vac / 50-60 Hz	03-822
MoGas-2	O <sub>2</sub> / CO / CO <sub>2</sub>	Paramagnetic (0-100%)	6mm (metric)	120-240 vac / 50-60 Hz	02-572
MoGas-2	O <sub>2</sub> / CO / CO <sub>2</sub>	Paramagnetic (0-100%)	1/4" (imperial)	120-240 vac / 50-60 Hz	06-245
MoGas-1	O <sub>2</sub> / CO / CO <sub>2</sub> / H <sub>2</sub> O	Zirconia (0-96%)	6mm (metric)	20-240 vac / 50-60 Hz	06-272
MoGas-1	O <sub>2</sub> / CO / CO <sub>2</sub> / H <sub>2</sub> O	Zirconia (0-96%)	1/8" (imperial)	120-240 vac / 50-60 Hz	06-274
MoGas-2	O <sub>2</sub> / CO / CO <sub>2</sub> / H <sub>2</sub> O	Paramagnetic (0-100%)	6mm (metric)	120-240 vac / 50-60 Hz	06-271
MoGas-2	O <sub>2</sub> / CO / CO <sub>2</sub> / H <sub>2</sub> O	Paramagnetic (0-100%)	1/8" (imperial)	120-240 vac / 50-60 Hz	06-273

Ntrn adopts a continuous development programme which sometimes necessitates specification changes without notice.