

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

Simple to install
Easy to operate

Features

- Measurement Ranges:
Zirconia O₂ Sensor: 0...96 % O₂
Infrared CO₂ Sensor: 0...1000 ppm
Electrochemical CO Sensor: 0...50 ppm
Optional Paramagnetic Sensor 0...100 % O₂
Optional moisture transmitter available
- Measures up to four parameters simultaneously
- User programmable alarm set-points for each parameter
- Output - 4...20 mA per parameter.
One common fault relay
- Optional built-in audible and visual alarms
- Large backlit LCD display of gas concentration.

Sensor	Type	System output	Response time	Temperature	Sensitivity
O ₂	Zirconia	4...20 mA	T90 < 3s	-20...+50°C	0.1 %
CO	Electrochemical	4...20 mA	T90 < 20s	-30...+50°C	0.3 ppm
CO ₂	Infrared	4...20 mA	T90 < 20s	-20...+50°C	3 ppm
O ₂	Paramagnetic	4...20 mA	T90 < 3s	+5...+45°C	0.2 %

Paramagnetic oxygen measurement is optional

MoGas gas analyzer Product specifications

Standard dimensions

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

Weight

16 kg

Measurement ranges

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

Power requirements

100...240 V AC / 50...60 Hz power supply

Enclosure

Painted mild steel. (RAL 9010)

Visual indication

LCD display

Alarm levels

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

Sample gas

Positive pressure samples up to 10 barg within enclosure.

Sample connection

6 mm, 1/4 " or 1/8 "

Electrical connections

Two-off M20 gland entry holes

User interface

4-button multifunctional keypad

Temperature range

Overall operating: -20...+50°C

Environmental rating

IP65

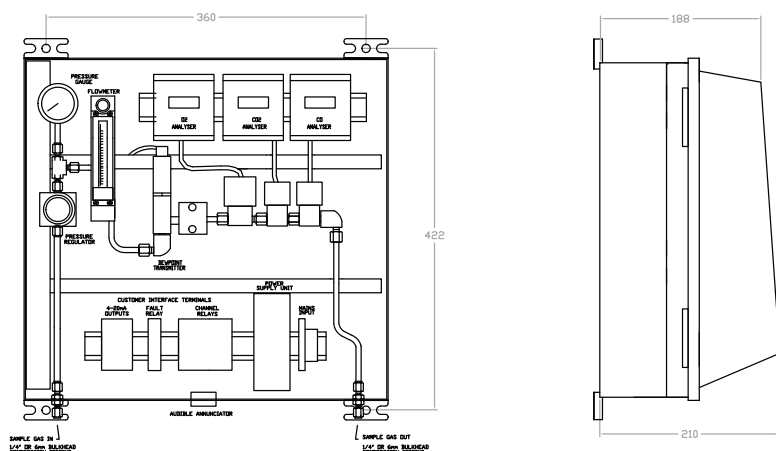
Humidity range

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 ₂ / CO / CO ₂	Zirconia (0...96 %)	6 mm (metric)	120...240 V AC / 50...60 Hz	02-715
MoGas-1	O ₂ / CO / CO ₂	Zirconia (0...96 %)	1/4 " (imperial)	120...240 V AC / 50...60 Hz	03-822
MoGas-2	O ₂ / CO / CO ₂	Paramagnetic (0...100 %)	6 mm (metric)	120...240 V AC / 50...60 Hz	02-572
MoGas-2	O ₂ / CO / CO ₂	Paramagnetic (0...100 %)	1/4 " (imperial)	120...240 V AC / 50...60 Hz	06-245
MoGas-1	O ₂ / CO / CO ₂ / H ₂ O	Zirconia (0...96 %)	6 mm (metric)	120...240 V AC / 50...60 Hz	06-272
MoGas-1	O ₂ / CO / CO ₂ / H ₂ O	Zirconia (0...96 %)	1/8 " (imperial)	120...240 V AC / 50...60 Hz	06-274
MoGas-2	O ₂ / CO / CO ₂ / H ₂ O	Paramagnetic (0...100 %)	6 mm (metric)	120...240 V AC / 50...60 Hz	06-271
MoGas-2	O ₂ / CO / CO ₂ / H ₂ O	Paramagnetic (0...100 %)	1/8 " (imperial)	120...240 V AC / 50...60 Hz	06-273

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