



**abiss**  
by ANEOLIA

**GASTECH**  
AUSTRALIA

## MULTI-CHANNEL GAS MONITOR

RISK MANAGEMENT

ROOM MONITORING

O<sub>2</sub> - CO<sub>2</sub> - CO - C<sub>2</sub>H<sub>4</sub>



**atmos**

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### BECAUSE NOTHING MATTERS MORE THAN YOUR SAFETY

- Dedicated to Room Monitoring where:
  - ▶ O<sub>2</sub> rate may decrease
  - ▶ CO or CO<sub>2</sub> rate may increase
- Built-in audible alarm - External flash alarm optional
- From 1 to 3 channels
- Complies to EN 50 104 version 2010

FOR CONTROLLING ACCESS TO RISKY CONFINED AREAS - SPECIFICALLY ADAPTED INSTRUMENT  
A FUNCTIONAL DEVICE - **ADAPTABLE TO YOUR APPLICATION**

Atmos is a wall mounted device for controlled atmosphere.

It should be installed where gas **variation of concentration** can put workers' **safety at risk**, or where gas concentration is to be **monitored continuously** for ambient **storage conditions**.

The sensors can be remotely installed and sample the ambient atmosphere by natural diffusion or convection.

The central unit manages alarms with adjustable thresholds, and duplicates measurements to 4-20 mA outputs.

Three key features make this instrument invaluable :

**SAFETY, ADAPTABILITY and CONTROL.**

### Applications :

- **Monitoring of confined areas**
- **Monitoring of controlled atmosphere**

#### Potential Users:

- Packaging Machine - MAP
  - Biochemical department :  
*Hospitals, laboratories, etc.*
  - Gas storage
  - Cryogenic applications
  - Fast food and industrial kitchens
  - Freezing tunnels
  - Fruit producers
  - Cereal storage
  - Car and trucks parks
  - Carbonated drinks
  - Cellars  
*Beer, wine, etc.*
  - Gas Producers
- And many more ...

#### ATMOS main benefits:

- User friendly
- Built-in audible alarm
- Qualified Gas : O<sub>2</sub>, CO<sub>2</sub>, CO, C<sub>2</sub>H<sub>4</sub>
- Up to 3 gas sensors for 1 central unit  
*Extensions possible up to 24 digital connections*
- Long distance between remote sensor & central unit  
*Up to 1 km without signal amplifier*
- IP65 central unit housing
- IP54 for remote sensors
- Atmospheric variation compensation  
*Independent of weather and altitude variation*
- 1 analog output 4-20 mA per sensor
- 2 alarm thresholds per gas channel
- 1 system fault relay
- Optional RS 485

### They already use ATMOS :

**Air Liquide Group**

**French Ministry of Defense: research laboratories**

**INSERM: National Institute of Health & Medical Research**

**And many public and private hospitals**

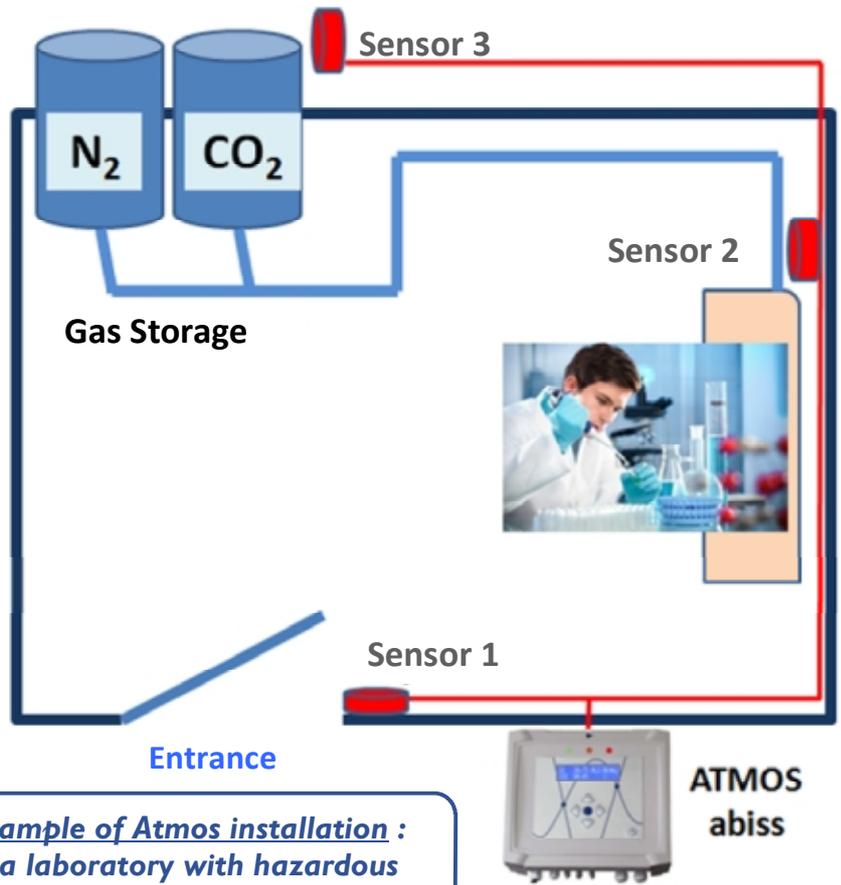
“CO<sub>2</sub> and N<sub>2</sub> can cause dangerous environmental situations:

They can put workers at risk

They cannot be detected without a proper monitoring instrument

High concentration of N<sub>2</sub> can cause a drop of O<sub>2</sub> below 18,5%

8% CO<sub>2</sub> can cause death within 5 min.”



Example of Atmos installation :  
In a laboratory with hazardous gas utilization and storage

**CO<sub>2</sub> concentration and associated risks**

CO <sub>2</sub> concentration by volume (%)	Situation	Risk
0,03	Normal concentration in air	None
0,5	Acceptable value of exposure (maximum exposure allowed 8h)	Really low
3	Maximum value of exposure (maximum exposure allowed 15 min)	Headache, vertigo
8	Immediate DANGER	Coma Death in 5 to 10 min
15	Extinguishes candle	
16	CO <sub>2</sub> concentration in air expelled by humans	
20	Immediate DANGER	Immediate death

“ CO<sub>2</sub> is a MAJOR RISK :  
colorless, odorless  
undetectable without room monitoring ”

## DEDICATED TO GAS MONITORING IN RISKY CONFINED AREAS

### TECHNICAL CONFIGURATION ADJUSTABLE BY REQUEST

OXYGEN (O <sub>2</sub> )	
Accuracy	+/- 1% relative
Resolution	0.1%
Scale	0 - 25% ; <i>other scales by request</i>
CARBON DIOXIDE (CO <sub>2</sub> )	
Accuracy	+/- 2% full scale
Resolution	0.1%
Scale	0 - 5% ; <i>other scales by request</i>
CARBON MONOXIDE (CO)	
Accuracy	+/- 2% full scale
Resolution	+/- 1ppm
Scale	0 - 2000 ppm ; <i>other scales by request</i>
DEVICE	
Central Enclosure	ABS enclosure IP 65
Dimensions	D90 or D150 W270 H250 (mm)
Ports	2 alarm relays per channel + 1 fault relay 220 VAC 2A - 30 VDC-1A Up to 3 analog outputs 4-20 mA
Interface	2 lines of 20 characters - soft keypad
Power supply	12V - 10W or 100-230 VAC – 50-60 Hz
Temperature	0 / 40°C - 98% RH

### Applications :

Food industry, Pharmaceutical industry, Inerting process...

#### CONTACT INFORMATION

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