

## GasPro-C Infrared Gas Analysers

### What is GasPro-C?

An IR Gas Analyser for monitoring, trouble shooting and optimisation (oxygen probe 'calibration') of carburising, carbonitriding and neutral hardening atmospheres.

All models measure the furnace CO<sub>2</sub>, CO and CH<sub>4</sub> and together with the furnace temperature (manually input or from external source) calculates the %IR carbon potential and suggested probe 'process factor' or 'CO factor'.

The GasPro 300-C 'Advance' model features automatic oxygen probe compensation.

The GasPro can be supplied either as a portable unit (requires an external power supply) in a carry case or suitable for 19" rack mounting.

### Features

Three independent IR gas sensors for CO, CO<sub>2</sub> and CH<sub>4</sub>. The high accuracy sensors have low drift with fast response time.



LCD operator touch screen graphic interface which displays %CO, %CO<sub>2</sub>, %CH<sub>4</sub>, %IR carbon and calculated 'Process Factor' / 'CO Factor'



Integral sample pump, coalescing filter and sample flowmeter



### What are the Benefits?

- Accurate, affordable infrared atmosphere measurement.
- Accurate calculation of atmosphere carbon potential.
- Automatic oxygen probe compensation (Gas Pro 300-C Advance)
- Verification of oxygen probe accuracy and performance.
- Easy identification of furnace atmosphere problems and furnace condition.
- Evaluation of endo generator performance, and catalyst condition.
- Optimise nitrogen / methanol system performance.

### How do I save money?

- Increase product quality and reduce 'rework'
- Work to lower part of case depth specification with confidence - shorter cycle times
- Increased production
- Payback time under one year

For more information

Daleside Road  
Nottingham  
NG2 3GJ  
England



A PARTNER OF  
**RICHELIN**

Tel: +44 (0)115 986 8773  
Fax: +44 (0)115 986 6716  
E.mail: sales@almor.co.uk  
Web: www.almor.co.uk

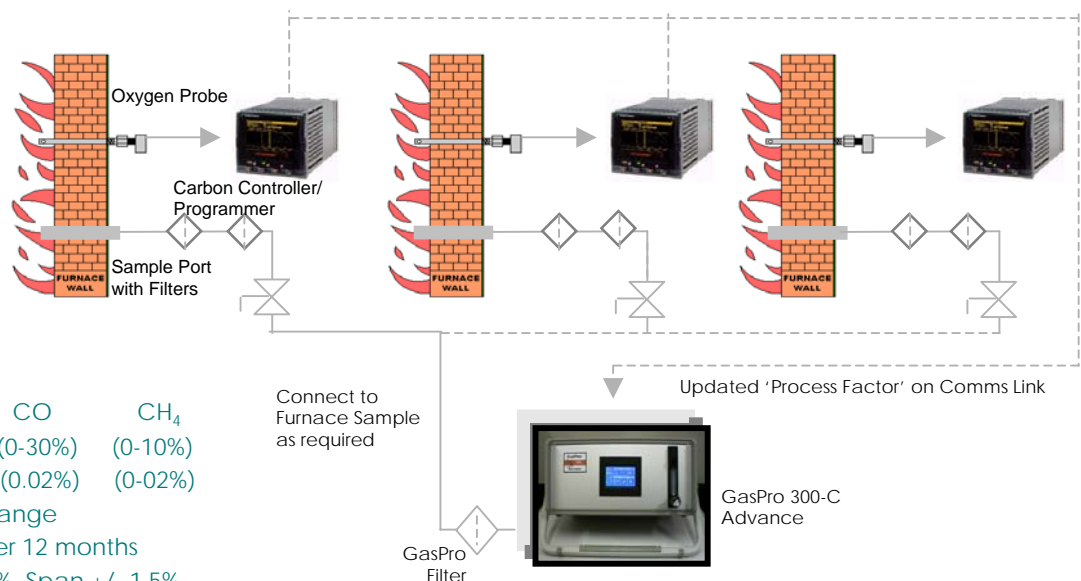
## GasPro 300-C Advance – How does it work?

The GasPro 300-C Advance uses CO, CO<sub>2</sub> and CH<sub>4</sub> values from three individual Infra-Red analysers (one for each gas) to **accurately** calculate the furnace atmosphere carbon potential.

GasPro then calculates the 'Process Factor' or 'CO Factor' based on the %IR Carbon and sets this value, and sends it via a serial communications link, to the existing atmosphere controller.

**The result** - the atmosphere controller now reads the same as the calculated %IR carbon.

The oxygen probe may be sooted or even failing - **the GasPro 300-C Advance will compensate!**



### Specification

	CO <sub>2</sub>	CO	CH <sub>4</sub>
<b>Ranges:</b>	(0-2%)	(0-30%)	(0-10%)
<b>Resolution:</b>	(10ppm)	(0.02%)	(0-02%)
<b>Accuracy:</b>	2% of gas Range		
<b>Stability:</b>	< +/- 2% over 12 months		
<b>Repeatability:</b>	Zero +/- 0.3%, Span +/- 1.5%		
<b>Electrical:</b>	110/240 volts ac 50-60 Hz 150 watts		

**Size** (excludes carry handle dimensions)

**Height:** 155mm

**Width:** 360mm

**Depth:** 320mm

All analysers incorporate a powerful sample pump and sample flowmeter (0-1 L/min).

Suitable for both 110 and 240 VAC operation, auto selected.

Calibration gas is required. Nitrogen for zero and certified calibration gas for span.

GasPro is supplied as a portable unit in a carry case (Note: external power supply required).

Alternatively, it can be supplied suitable for 19" rack mounting. GasPro 300-C Advance is available as a fixed system (see Ultracarb 100Lt)