## **PROCESS ANALYZER PA 7.0**

# for $O_2$ , $CO_2$ or $O_2/CO_2$





**PA 7.0 S** 

Compact analyzer for monitoring protective atmospheres in food packaging and other MAP applications. For continuous analysis (in-line) and also intermittent sampling via needle. A flexible analyzer to guarantee quality and increase productivity.

### **Benefits**

- large illuminated graphic display
- mini SD and mini USB port
  - update firmware updates
  - data transfer via mini USB
- minimal sample gas required for analyzing even the smallest volumes (e.g., food packaging)
- sample measuring results in seconds
- integrated data log of the last 500 measurements
- assignment of measurements to different product names, users and product lines
- multilingual menu guide: German, English, French, Italian, Spanish, Dutch, Swedish, Finish, Polish, Hungarian, Romanian and Turkish (more to come)
- system errors or exceeding of set limits trigger an alarm or potential free contact, e.g., to shut down machinery (only P- and L-version)
- splash-proof, robust housing
- interface for transfer of logged data

### Options

- O<sub>2</sub> measurement also in ppm range
- handle (as pictured)
- separate table printer for instant documentation

### **Equipment selection**

Applications	Analysis		Gases			
Food	Sampling	Continuous Analysis	02	CO <sub>2</sub>	0 <sup>2</sup> /C0 <sup>2</sup>	Type of equipment
•	•		•	•	•	PA 7.0 S 3)
•		•	•	•	•	PA 7.0 L 3)
•	•	•	•	•	•	PA 7.0 S+L 2) 3)
•		•	•	•	•	PA 7.0 P 1) 3)

<sup>1)</sup> without pump, with inlet pressure regulation

All versions also available with zirconia measuring cell for  ${\rm O_2}.$  Please add  ${\bf Zr}$  to the model type.

### Measuring systems

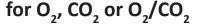
Gases	Measuring system	Measuring range	Repeatability	Response time	Service life
O <sub>2</sub> for sampling	chemical measuring cell	0 – 100%	± 0.2% abs.	6 sec.	approx. 2 years in air
O <sub>2</sub> for continuous analysis	chemical measuring cell	0 – 100%	± 0.2% abs.	10 sec.	approx. 3 years in air
O <sub>2</sub> for sampling and continuous	zirconia measuring cell	1 ppm – 100%	± 0.2% rel.	4 sec.	long lifetime
CO <sub>2</sub> for sampling and continuous	infrared measuring cell	0 – 30% or 0 – 100% please indicate	± 0.5% abs.	6 sec.	long lifetime

<sup>2)</sup> with 2 chemical sensors for oxygen

 $<sup>^{3)}</sup>$  gases to be specified

# PA3 USA - M02/3F subject to change

# **PROCESS ANALYZER PA 7.0**





Type PA-O<sub>2</sub>; PA-CO<sub>2</sub>; PA-O<sub>2</sub>/CO<sub>2</sub>

**Finish** 

P-version over pressure measurement
L-version measurement via lance with pump

S-version sample measuring

Gases O<sub>2</sub> and/or CO<sub>2</sub>; balance gas: N<sub>2</sub>, Ar (others on request)

not for flammable, corrosive or toxic gases!

Measuring system see table

Measuring range O<sub>2</sub>/CO<sub>2</sub> with chemical or infrared

measuring cell

0 – 100%; in 0.1%-steps

Measuring range O<sub>2</sub> with zirconia measuring cell

1ppm - 0.1%; in ppm steps 0.1% - 1%; in 0.001% steps 1% - 10%; in 0.01% steps 10% - 100%; in 0.1% steps

Sample gas requirement

 $O_2$  < 3 ml  $O_2/CO_2$  < 7 ml

Calibration O<sub>2</sub>/CO<sub>2</sub>

simple two point calibration

Withdrawal

sampleautomatic via needle using integrated pumpcontinuousby pump or pressure regulator (optional)

**Temperature (gas/environment)** 32 – 104°F

Gas connections

sample needle with integrated pump

**continuous** hose connection for ID 4 mm with integrated pump

Inlet pressure

pumpmax. 4.35 PSIGpressure regulatormax. 145 PSIGL-versionpressurelessS-versionpressureless

Alarm contacts 2 potential free contacts for min. and max. settings,

adjustable for each gas (only P- and L-version)

Interfaces RS 232 with ASCII-output of date, time, measured value and

system informations (more detailed information on request)

analog output 4-20 mA or 0-10 V

Housing splash proof
Weight approx. 13.23 lb

**Dimensions (HxWxD)** approx. 7.32 x 11.22 x 10.63 inches

with carry handle (without connections)

**Voltage** 90 – 250 V AC, 47 – 63 Hz or 24 V DC

Power consumption 230 V AC, 0,07 A

Approvals Company certified according to ISO 9001 and ISO 22000

CE-marked according to: - EMC 2014/30/EU

- Low Voltage Directive 2014/35/EU

for food-grade gases according to:
- Regulation (EC) No 1935/2004

Cleaned for Oxygen Service according to:

- EIGA IGC Doc 13/12/E: Oxygen Pipeline and Piping Systems