PA3 USA - L01/18 subject to change

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

- improved touch panel operation
- · 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

- O₂ 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 ₂	O ₂ /CO ₂	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)

¹⁾ 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

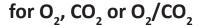
Gases	Measuring system	Measuring range	Repeatability	Response time	Service life
O ₂ for sampling	chemical measuring cell	0 – 100%	± 0.2% abs.	6 sec.	approx. 2 years in air
O ₂ for continuous analysis	chemical measuring cell	0 – 100%	± 0.2% abs.	10 sec.	approx. 3 years in air
O ₂ for sampling and continuous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

²⁾ with 2 chemical sensors for oxygen

 $^{^{3)}}$ gases to be specified

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Type PA-O₂; PA-CO₂; PA-O₂/CO₂

Finish

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

S-version sample measuring

Gases O₂ and/or CO₂; balance gas: N₂, Ar (others on request)

not for flammable, corrosive or toxic gases!

Measuring system see table

Measuring range O₂/CO₂ with chemical or infrared

measuring cell

0 – 100%; in 0.1%-steps

Measuring range O₂ 1ppm - 0.1%; in ppm steps with zirconia measuring cell 0.1% - 1%; in 0.001% steps

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

Sample gas requirement O₂ < 3 ml

 O_2^2/CO_2 < 7 ml

Calibration O₂/**CO**₂ 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