

PROCESS ANALYZER PA 7.0

for O₂, CO₂ or O₂/CO₂



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			Type of equipment
	Food	Sampling Continuous Analysis	O ₂	CO ₂	O ₂ /CO ₂	
•	•		•	•	•	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

²⁾ with 2 chemical sensors for oxygen

³⁾ gases to be specified

All versions also available with zirconia measuring cell for O₂. Please add **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

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Type	PA-O ₂ ; PA-CO ₂ ; PA-O ₂ /CO ₂
Finish	
P-version	over pressure measurement
L-version	measurement via lance with pump
S-version	sample measuring
Gases	O ₂ and/or CO ₂ ; balance gas: N ₂ , 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 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 O₂/CO₂	simple two point calibration
Withdrawal sample continuous	automatic via needle using integrated pump by pump or pressure regulator (optional)
Temperature (gas/environment)	32 – 104°F
Gas connections sample continuous	needle with integrated pump hose connection for ID 4 mm with integrated pump
Inlet pressure pump pressure regulator L-version S-version	max. 4.35 PSIG max. 145 PSIG pressureless pressureless
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) with carry handle	approx. 7.32 x 11.22 x 10.63 inches (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