

# PROCESS ANALYZER PA 7.0

for O<sub>2</sub>, CO<sub>2</sub> or O<sub>2</sub>/CO<sub>2</sub>



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

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

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

<sup>3)</sup> gases to be specified

All versions also available with zirconia measuring cell for O<sub>2</sub>. Please add **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

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<b>Type</b>	PA-O <sub>2</sub> ; PA-CO <sub>2</sub> ; PA-O <sub>2</sub> /CO <sub>2</sub>
<b>Finish</b>	
<b>P-version</b>	over pressure measurement
<b>L-version</b>	measurement via lance with pump
<b>S-version</b>	sample measuring
<b>Gases</b>	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!
<b>Measuring system</b>	see table
<b>Measuring range O<sub>2</sub>/CO<sub>2</sub> with chemical or infrared measuring cell</b>	0 – 100%; in 0.1%-steps
<b>Measuring range O<sub>2</sub> with zirconia measuring cell</b>	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
<b>Sample gas requirement</b>	O <sub>2</sub> < 3 ml O <sub>2</sub> /CO <sub>2</sub> < 7 ml
<b>Calibration O<sub>2</sub>/CO<sub>2</sub></b>	simple two point calibration
<b>Withdrawal sample continuous</b>	automatic via needle using integrated pump by pump or pressure regulator (optional)
<b>Temperature (gas/environment)</b>	32 – 104°F
<b>Gas connections sample continuous</b>	needle with integrated pump hose connection for ID 4 mm with integrated pump
<b>Inlet pressure pump pressure regulator L-version S-version</b>	max. 4.35 PSIG max. 145 PSIG pressureless pressureless
<b>Alarm contacts</b>	2 potential free contacts for min. and max. settings, adjustable for each gas (only P- and L-version)
<b>Interfaces</b>	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
<b>Housing</b>	splash proof
<b>Weight</b>	approx. 13.23 lb
<b>Dimensions (HxWxD) with carry handle</b>	approx. 7.32 x 11.22 x 10.63 inches (without connections)
<b>Voltage</b>	90 – 250 V AC, 47 – 63 Hz or 24 V DC
<b>Power consumption</b>	230 V AC, 0,07 A
<b>Approvals</b>	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