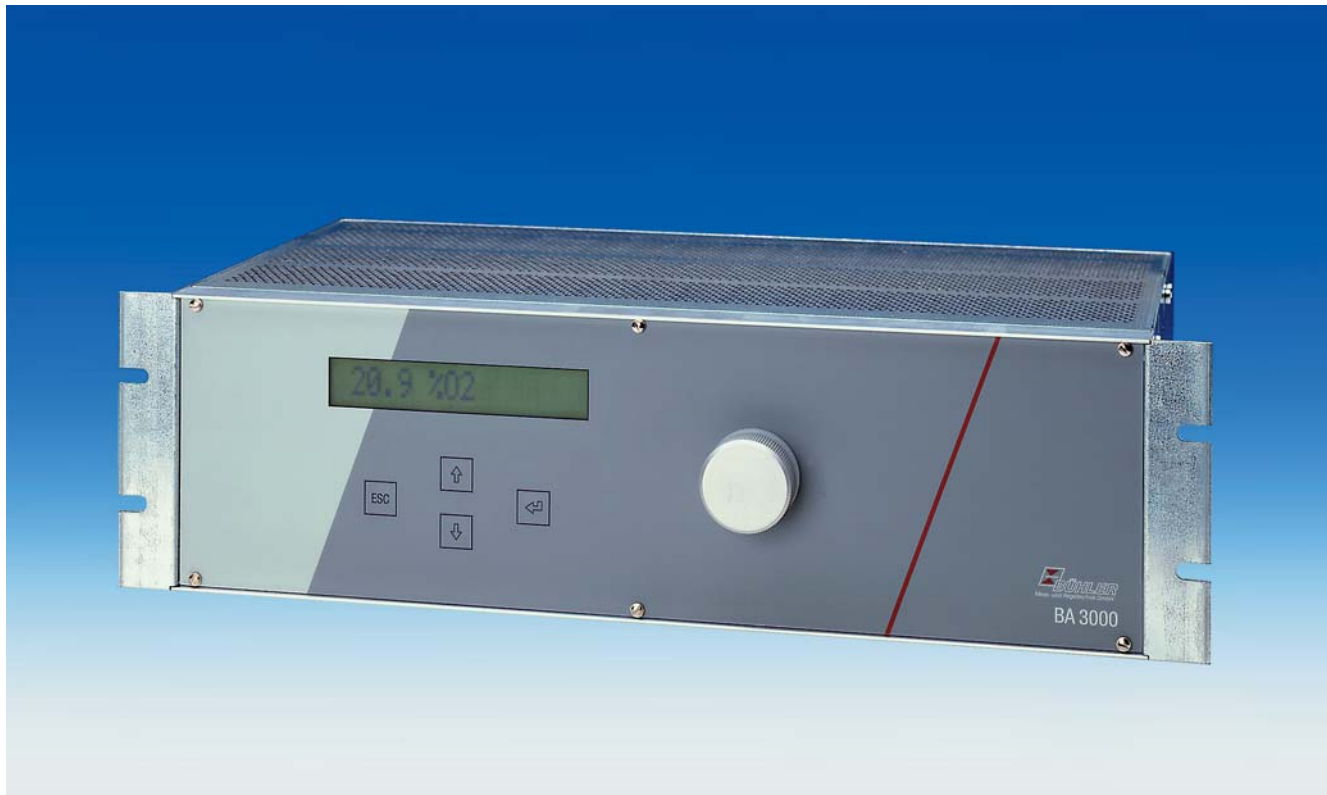


Oxygen Analyser BA 3000



The BA 3000 is designed for the continuous analysis of oxygen in stationary applications. The unit is ideal for use in process, safety or emission control applications. The measurement is highly specific to oxygen and gives a reliable analysis over a broad range. The paramagnetic cell is thermally stabilized, has very low cross-sensitivity to background gases and has a high life expectancy. The measurement cell is protected against particulate contamination by a fine filter with easy access on the front panel.

The BA 3000 is configured in a 19" rack mountable housing or a wall mount housing. Instrument operation is menu guided with a keypad at the front panel. Calibration is carried out with zero and span gas. The measurement range is user adjustable from 0 to 100%. Optional pressure compensation makes it possible to use the BA 3000 in applications with varying ambient or sample gas pressure. Within the measurement range, two alarm outputs can be individually configured.

- **Paramagnetic measurement cell**
- **Accurate, fast and reliable O₂ analysis**
- **Easy operation**
- **19" rack mount or wall mount housing**
- **4 - 20 mA output**
- **Menu-guided operation**
- **Password protected**
- **Optional internal pump**
- **User selectable measurement range**
- **Long life, reliable cell**
- **Programmable alarm relays**
- **Thermally stabilized measurement cell**

Technical Data

Measurement component	oxygen
Highest measuring range	0 ... 100 Vol % O ₂
Smallest measuring range	0 ... 2 Vol % O ₂
Measuring range suppression	programmable
Measuring principle	paramagnetic
Specification	
Accuracy	0.1 Vol % O ₂ absolute
Linearity fault	≤ 0.5 % range
Repeatability	± 0.03 % O ₂
Response time(T ₉₀)	< 10 s
Zero drift	≤ ± 0.05 Vol.% O ₂ per week
Span drift	≤ ± 0.15 % of measured range per week
Temperature effects	zero ≤ ± 0.01 Vol.% O ₂ / K span ≤ ± 0.025 of range / K
Pressure effects	1 % sample gas pressure change effects 1% display change (without pressure compensation)
Sample conditions	
Sample temperature	+ 5 °C to 45 °C
Sample pressure	min.: 10 hPa with internal pump: -5 hPa max: 500 hPa
Sample flow rate	10 ... 90 l/h with internal pump: approx. 30 l/h with pressure compensation (ARP 1.2) min. 40 l/h
Sample gas requirements	dew point min. 5 °C below ambient temperature, clean sample gas is necessary
Environmental conditions	
Operating temperature	+ 10 °C to 45 °C
Storing conditions	- 25 °C to + 65 °C
Relative humidity	< 75%
Signal outputs	
Signal output	4...20 mA or 0... 20 mA load max.500 Ω
Alarm relay	2x limit, 1x fault, 48V DC, 1A, 30W
Readings	
Measured value display	LCD
Status display	LCD
Power supply	100 - 240 VAC; 50/60 Hz
Mechanical data	
Housing	19", 3 HE (133 x 489 x 245 mm) or wall mount housing (241 x 236 x 270 mm)
Gas input	pipe fitting Ø 1/4", 1.4401
Sample gas filter	filter with glass fibre husk
Sample wetted parts	PVDF, glass, SS 1.4571, gold, viton, platinum-iridium, epoxy resin
Weight	approx. 6 kg

Please indicate with order

Type	Part-no.	Options	Part-no.
BA 3000: 19", 100-240V, 50/60 Hz	55 07 199	Internal pump	55 07 1991
BA 3000: wall mount, 100-240V, 50/60 Hz	55 07 599	Pressure compensation (ARP 1.2)	55 07 1993
		Back pressure regulator ARP	46 00 999
Spare filter element, FE-E2, 5 pcs.	41 15 09 910	Stainless steel piping	55 07 1994