



Gas Analysis

Portable O2 and CO2-Analyser BA 4S

The BA 4S is a high performance O_2 and CO_2 -gas analyser you can really depend on. With easy and intuitive operation and single or dual O_2/CO_2 measurement functions, BA 4S is ideal for a wide range of measurement applications.

A small sized, big monitoring capability device, the BA 4S provides flexible use and full portability. With a size that belies its strength, the BA 4S delivers reliable, leading-edge performance and accuracy you can rely on in an affordable, low-maintenance and easy-to-use unit.

Paramagnetic O₂ and infrared CO₂ sensing technology

Flexible, portable device

Mains or battery power option

Durable measuring cell

Quick, accurate and reliable O₂ and CO₂ analysis

Easy to use



Description

When you work in light industrial or laboratory applications, you need equipment you can depend on and help you get the job done as efficiently as possible.

In certain applications you'll need equipment that's suitable for the highest level. No matter what your application monitoring requirement, you'll want a device that offers long battery runtime, low operational costs, simplified ongoing maintenance and ease of use. And we don't believe you should have to compromize.

With the full capability to meet the demands of sensitive, accurate testing, the BA 4S has long-life operation powered by a durable battery system.

This, combined with gas-specific accuracy, ensures the BA 4S is ready for a range of monitoring needs from the verification of medical oxygen to CEMS testing.

It's always ready to work when you are. When you want sensitive, accurate detection, low maintenance requirements and the flexibility to do the job the way you want it done, the BA 4S provides a small, easy to use and cost-effective solution that delivers on all levels.

Examples for application:

- Laboratories and research

- Air separation and gas bottling plants

- Medical gas storage facilities

- Physiology and respiration studies

- Diving centers

- Transfilling

- Fermentation

- Combustion analysis

Technical Data

General Technical Data

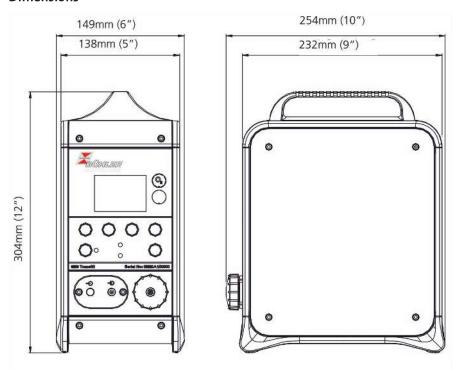
Size:	150 mm (6.0") x 300 mm (12.0") x 260 mm (10.5") WxHxD			
Weight:	2.6 kg (5.7 lbs) - 3.9 kg (8.6 lb	os) depending on configuration	pending on configuration	
Options	Description	Specification	l	
Internal pump:	Integrated internal pump with a timer 700 ml/min			
Monitoring Performance				
Sensor:	O ₂	O ₂	CO ₂	
Technology:	-	-	Infrared	
Variant:	Pro (1 dp)	Premium (2 dp)	All variants (1 dp)	
Full scale and Min. output:	0-100 % 0-1 % (min.)	0-100 % 0-1 % (min.)	0-10 %, 25 %, 50 %, 100 %, 0-10 % FSR	
Cell construction:	316 Stainless Steel	316 Stainless Steel	316 Stainless Steel	
Accuracy (intrinsic error):	±0.1 % O ₂	±0.05 % O ₂	±2 % FSR	
Zero drift/week:	±0.2 % O ₂	±0.2 % O ₂	±4 % FSR	
T ₉₀ in sec.:	<15	<15	<10	
Operating temperature:	-10 to +50 °C (14 to 122 °F)	-10 to +50 °C (14 to 122 °F)	+5 to +45 °C (41 to 113 °F)	

Please note: Allow 1 hour warm up to meet performance specification.

Sample for Measurement

Sample gas:	Clean, dry, non-flammable and non-toxic gases only. Through samples containing >5 % CO ₂ are toxic, they can be analyzed if the suitable precautions are taken. AFCD maximizes measurement stability for unpumped units over specified inlet pressure range, 1.5 – 6 ltr (0.05 -0.2 ft ³ /min)	
Flow Control:		
Sample inlet connection:	5 mm OD stub	
Sample outlet connection:	5 mm OD stub (sample and bypass)	
Inlet pressure:	t pressure: With optional internal pump – 7 kPa (1 psig) to 3.5 kPa (0.5 psig) Without pump – 7 kPa (1 psig) to 70 kPa (10 psig)	

Dimensions



Ordering instructions

Item no.	Description
55905260701	BA 4S O2 Pro without pump
55905260702	BA 4S O2 Pro including internal pump
55905260703	BA 4S O2 Premium without pump
55905260704	BA 4S O2 Premium including internal pump
55905260705	BA 4S O2 Pro + CO2 without pump
55905260706	BA 4S O2 Pro + CO2 including internal pump
55905260707	BA 4S O2 Premium + CO2 without pump
55905260708	BA 4S O2 Pro + CO2 including internal pump