

## Yellow Box Portable Oxygen Analyzer

Compact, robust, and transportable, the Yellow Box delivers a versatile analyzer for high accuracy oxygen measurement.

The same elite engineering behind the Microx oxygen analyzer, brings you Yellow Box for line-powered primary instrumentation verification across an extensive range of applications.

Three discreet and independent sensors offer the flexibility of ppm or % oxygen measurements, and for ease-of-use and measurement accuracy, Yellow Box houses an in-built flow indicator.



Yellow Box 300 model pictured

### Highlights

- Measurement range from 0...1000 ppm<sub>v</sub> up to 0...96 % O<sub>2</sub>
- Long-life, quick-response zirconia technology
- Optional flow indicator for positive pressure sample flow
- Battery-powered configuration option

### Applications

- Verification of primary instrumentation
- N<sub>2</sub> and O<sub>2</sub> generators
- Industrial gas
- Medical gas
- Pharmaceutical

## Technical Specifications

Sensor		Model		
Zirconia (ZR)	100	200	300	
Measurement Range	0...1000 ppm <sub>v</sub> , 0...25 %	0...1000 ppm <sub>v</sub> , 0...25 %	0...1000 ppm <sub>v</sub> , 0...25 %, 0...96 %	
Output Resolution		1 ppm <sub>v</sub> or 0.01 %		
Lower Detection Limit (LDL)		1 ppm <sub>v</sub> or 0.01 %		
Pressure Range		Up to 2 barg (29 psig) internal preset		
Response Time (T90)		< 15 seconds @ 25 °C (77 °F) within selected range		
Operating Temperature Range		-25...+60 °C (-13...+140 °F)		
Life Expectancy		Up to 5 years		
Humidity		0...95 %rh non-condensing		
Shelf Life		Unlimited		
Analyzer				
Electrical (per analyzer channel)				
Output Signal		4...20 mA		
Power Supply		85...264 V AC (50 / 60 Hz)		
Maximum Power Consumption	8 W	4.8 W	9.6 W	
Mechanical				
Sample Connections	Sample in: 6 mm or 1/4" 'bulkhead' tube compression fittings			
Flow Rate	500 ml/min			
Internal Regulation	0.2 MPa (Up to 2 barg / 29 psig) Sample pressure and flow set at 0.03 MPa (0.3 barg / 5 psig); 0.55 SCFH (250 ml/m)			
Ingress Protection	IP67 when case closed for transportation			
Housing Material (case)	High impact co-polymer polypropylene			
Compliance				
EMC: EN 50270				

### Dimensions (mm)

The drawing shows a top-down view of the analyzer with dimensions: 'a' for width, 'b' for height, and 'c' for depth. Callouts 1-9 identify: 1) % Analyzer (0-96%), 2) % Analyzer (0-25%), 3) ppm Analyzer, 4) Power in connector and On/Off switch, 5) Analyzer select switch, 6) Analyzer output 4-20 mA test points, 7) Sample in port (6 mm compression fitting), 8) Case ventilation ports, and 9) Sample out port and flow meter.

Model	100*	200	300
a	410	350	350
b	300	300	300
c	165.5	150	150

The following is dependent on your model/configuration:

1	% Analyzer (0-96%)
2	% Analyzer (0-25%)
3	ppm Analyzer
4	Power in connector and On/Off switch
5	Analyzer select switch
6	Analyzer output 4-20 mA test points
7	Sample in port (6 mm compression fitting)
8	Case ventilation ports
9	Sample out port and flow meter

\*Battery-powered option

**! CAUTION**

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We adopt a continuous development program which sometimes necessitates specification changes without notice. For technical assistance or enquiries about other options, please contact us here: [instruments.support@processsensing.com](mailto:instruments.support@processsensing.com).