

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_v up to 0...96 % O₂
- Long-life, quick-response zirconia technology
- Optional flow indicator for positive pressure sample flow
- Battery-powered configuration option

Applications

- Verification of primary instrumentation
- N₂ and O₂ generators
- Industrial gas
- Medical gas
- Pharmaceutical

Technical Specifications

Sensor		Model		
Zirconia (ZR)	100	200	300	
Measurement Range	0...1000 ppm _V , 0...25 %	0...1000 ppm _V , 0...25 %	0...1000 ppm _V , 0...25 %, 0...96 %	
Output Resolution		1 ppm _V or 0.01 %		
Lower Detection Limit (LDL)		1 ppm _V 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, UKCA				

Dimensions (mm)

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

Ntron Gas Measurement Ltd is part of the Process Sensing Technologies Group plc (PST). As customer applications are outside of PST control, the information provided is given without legal responsibility. Customers should test under their own conditions to ensure the equipment is suitable for the intended application(s).

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: oxygen@processsensing.com.