

# XZR200

## Oxygen Analyzer

A cost effective zirconium-dioxide analyzer to measure percentage level oxygen in combustion processes, ambient air monitoring and many more applications. The unit is configurable to measure either 0-25% or 0-100% oxygen and offers manual or automatic calibration to suit the customer's needs. Two probe lengths are available (210mm & 400mm (8.3" & 15.7")) as well as two maximum sample temperatures (+250°C & +400°C (+482°F & +752°F)) for greater flexibility.



### Highlights

- Configurable outputs: 4-20 mA and 0 to 10 V DC or RS232 comms interface
- Cycling 3.3 V DC logic output allows direct monitoring of the O<sub>2</sub> sensor for diagnostic purposes
- Can be calibrated in normal air (20.7% O<sub>2</sub>) or in any other known O<sub>2</sub> concentration
- Selectable output filtering allows fast and dynamic or slow and stable output
- Externally triggered automatic or manual calibration
- Diecast aluminium case IP65 with stainless steel probe
- Sample temperature up to +400°C

### Applications

- Combustion control including oil, gas and biomass boiler applications
- Laboratory & building air quality monitoring including confined space personnel safety
- Composting
- Scientific including respiratory studies of a community or an organism, plants and animals
- Food and beverage packaging

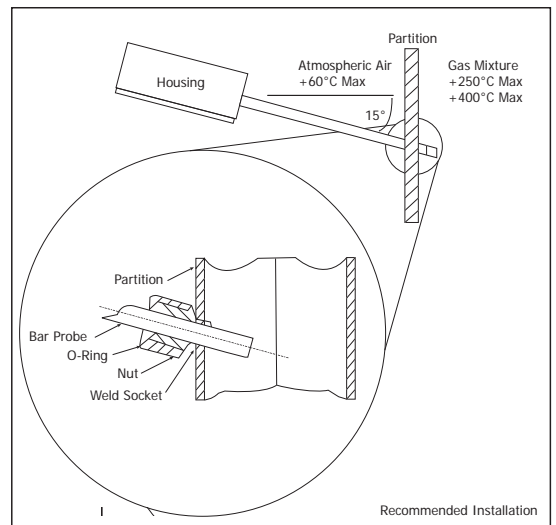
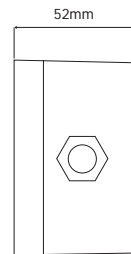
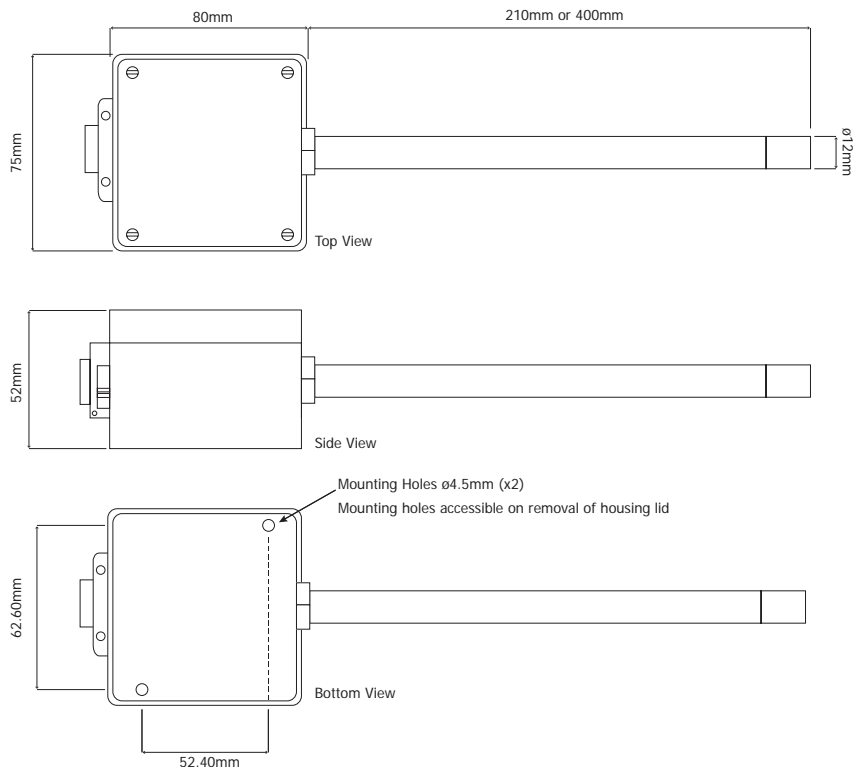
# Technical Specifications

Performance	
Measurement technology	Zirconium Dioxide
Gas	Oxygen
Measurement range	0-25% or 0-100%
Output resolution	0.01 V, 0.01 mA or 0.01% O <sub>2</sub>
Accuracy (0-25%)	< 0.5% O <sub>2</sub>
Accuracy (0-100%)	< 1% O <sub>2</sub>
Response time (T90)	< 5 seconds
Repeatability	< 0.5%
Sample flow rate	0 to 1.7 m/sec
Sample flow effect	±0.5% of full scale
Sample pressure	Atmospheric
Sample temperature	+250°C (+482°F) or +400°C (+752°F)
Sample cell temperature	+700°C (+1292°F)
Background gas	Air, N <sub>2</sub> , CO <sub>2</sub> , Ar or He

**Warning: Probe tip gets hot, do not touch without PPE**

Electrical Input/Output	
Power supply	24 V DC, ±10%
Power consumption	500 mA maximum @ 24 V DC
Analog outputs	4-20 mA and 0 to 10 V DC
Output ranges	0-25% or 0-100%
Digital communications	RS232 (not available if 4-20 mA output selected)
Operating Conditions	
Ambient temperature	-10 to +85°C (+14 to 185°F)
Mechanical Specifications	
Warm Up time	Approx. 10 minutes
Stabilization time	Included in the above
Dimensions	52 x 75 x 80mm (2 x 3 x 3.1") (h x w x d) excluding probe
Probe dimensions	210 or 400mm (8.3 or 15.7") (length) ø12mm
Weight	< 0.5kg (< 1.1lbs)
Wetted materials	Stainless steel
Process connection	12mm Swagelok® connector
Ingress protection	IP65
Housing material	Waterproof die-cast aluminium housing

## Dimensions



Michell Instruments, Inc 319 Newburyport Turnpike, Suite 207, Rowley, MA 01969  
 Tel: 978 484 0005, Fax: 978 843 7669, Email: [us.info@michell.com](mailto:us.info@michell.com), Web: [www.michell.com/us](http://www.michell.com/us)

Michell Instruments adopts a continuous development programme which sometimes necessitates specification changes without notice.  
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