

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) as well as two maximum sample temperatures (250°C & 400°C) for greater flexibility.



Ti Techingenium

Distribuidores autorizados para Uruguay
 Venta - Ingeniería - Instalación - Mantenimiento
 Francisco Soca 1531
 Telefono: +598 2 707 48 01
 Montevideo Uruguay
 Mail: info@techingenium.com.uy
 www.techingenium.com.uy

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 O₂ sensor for diagnostic purposes
- Can be calibrated in normal air (20.7% O₂) or in any other known O₂ 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

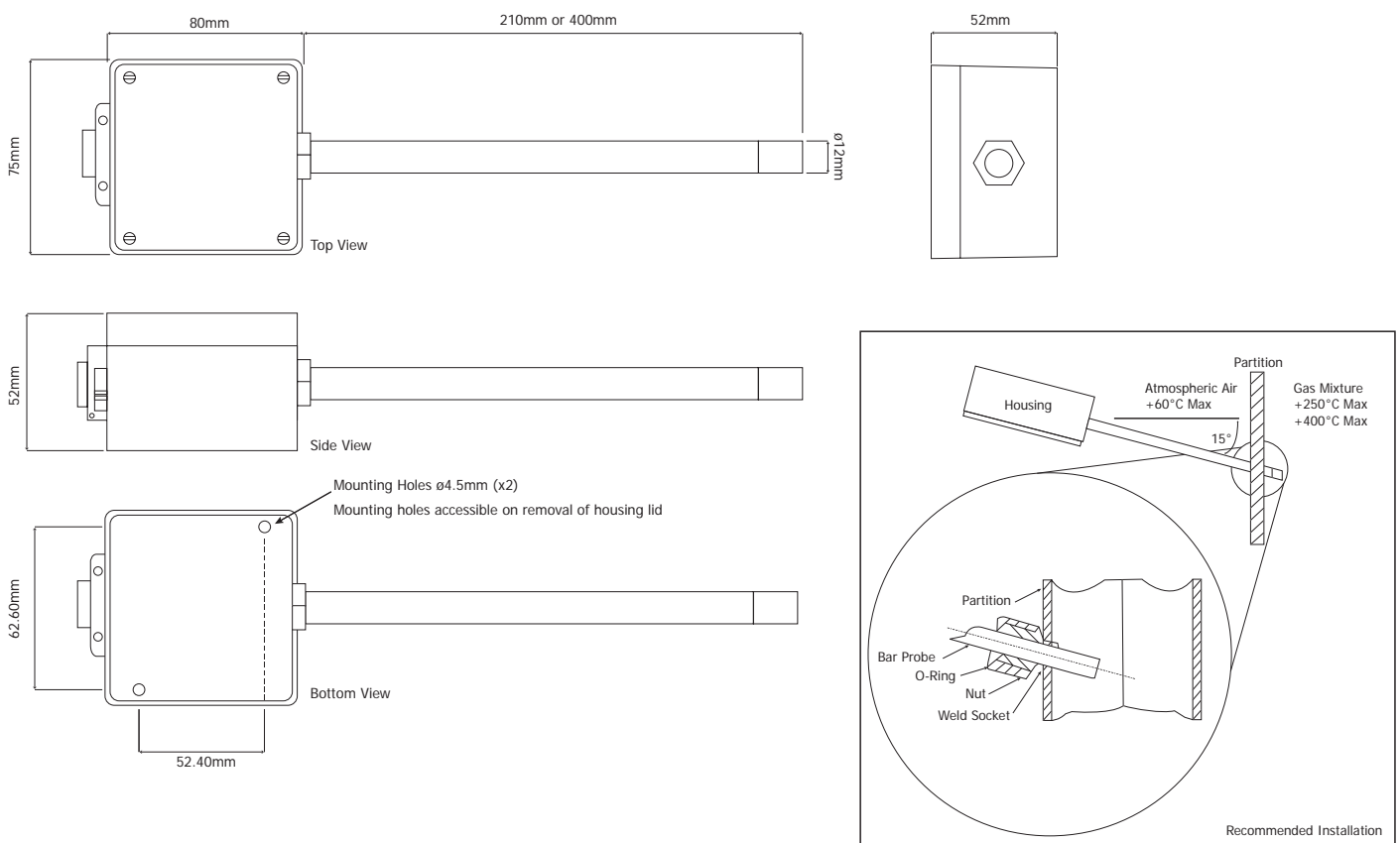
Technical Specifications

| 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 ₂ |
| Accuracy (0-25%) | < 0.5% O ₂ |
| Accuracy (0-100%) | < 1% O ₂ |
| 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 or +400°C |
| Sample cell temperature | +700°C |
| Background gas | Air, N ₂ , CO ₂ , 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 |
| Mechanical Specifications | |
| Warm Up time | Approx. 10 minutes |
| Stabilization time | Included in the above |
| Dimensions | 52 x 75 x 80mm (h x w x d) excluding probe |
| Probe dimensions | 210 or 400mm (length) ø12mm |
| Weight | < 0.5kg |
| Wetted materials | Stainless steel |
| Process connection | 12mm Swagelok® connector |
| Ingress protection | IP65 |
| Housing material | Waterproof die-cast aluminium housing |

Dimensions



Michell Instruments Ltd 48 Lancaster Way Business Park, Ely, Cambridgeshire, CB6 3NW
 Tel: +44 (0) 1353 658000, Fax: +44 (0) 1353 658199, Email: uk.info@michell.com, Web: www.michell.com/uk

Michell Instruments adopts a continuous development programme which sometimes necessitates specification changes without notice.
 Issue no: XZR200_97338_V2_UK_0114