

Technical Data

DBI 2000 Series Electrochemical cell analysis for oxygen.

- PPM or % Oxygen levels
- Choice of cells for different applications
- Sensor mounted on rear for easy access

Applications.

- Industrial General
- Industrial Safety
- Emissions
- Automotive
- Air Separation
- Gasification
- N2 Generators.



The DBI 2000 analysers have numerous applications in processes requiring the precise measurement of oxygen level. In ppm or % levels, safe areas or hazardous ones, in various process conditions and in differing backgrounds there is a DBI 2000 configuration right for your needs. Options include a choice of outputs, AC or DC versions, alternative oxygen cells or sample conditioning.

Different electrochemical cells are available to suit the application.

The standard 'DN' cell has a broad range from high ppm to 50% oxygen. The 'L' cell is designed for accuracy at low ppm levels, it will also work at % levels (with a shorter lifetime). The 'E' cell is designed for use in % levels of oxygen in the presence of mildly acidic gases, e.g. carbon dioxide, Our product managers will be pleased to advise on which cell is most suitable for an application.

Oxygen Cell Choice.

Cell Type & P/N	Suitable for background gas
DN Cell, DBNC-02	N2 Ar He
E Cell, DBEC-04	N2 Ar He CO2 CH4 CO H2
L Cell, DBLC-08	N2 Ar He

Analyser	Cell Type	Display Range	Description
DB2000	DN	100 ppm to 50%	Auto-ranging display with cell mounted on rear of electronics.
DB2000	E	0.1% to 100%	

DB2000	L	1 ppm to 10%	
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<p>Stability <2 % reading/month or 1ppm, whichever is greater</p> <p>Sample flow 100 – 300ml/min optimum 1000ml/min maximum</p> <p>Sample temperature range –5°C to +40°C RH <100% (non-condensing)</p> <p>Sample pressure Atmospheric (determined by vent pressure) for quoted accuracy</p> <p>Sample connections Inlet and outlet: ¼” bulkhead compression fittings suitable for 0.25inch (or 6mm) o.d. tube</p> <p>Speed of response T90: varies according to sensor and concentration - typically 3s at % levels, 20s at ppm levels</p>	<p>Analogue Outputs 0–5V (min load 10kohms) or 4-20mA (max load 300ohms) Isolation: max 30Vac, 70Vdc</p> <p>Alarm Outputs 2 alarms, user programmable Volt free, crossover contacts</p> <p>Ambient operating range 0°C to +40°C, RH <80% (non-condensing)</p> <p>Power 110–120V or 220–240V AC, 50/60Hz or 24V DC</p> <p>Enclosure details Glass fibre reinforced, Noryl panel mount Net weight: 1.0 kg Dimensions (mm) 96w x 96h x 120D</p>
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