

Description

The B2030 is an optical dissolved oxygen (DO) sensor designed for use with any SU100 series single-use BPC gas well. The sensor performs continuous measurement behind the rugged, sterile, steel-mesh reinforced membrane barrier of the gas well, eliminating the need to heat sterilize the sensor. The sensor has no wetted materials as the gas well prevents the sensor from direct contact with the BPC media.

The B2030 digital output is compatible with SensorTalk™ input DO transmitters and similar instrumentation. The sensor output can be converted to Modbus RTU with a SmartSync™ signal conditioner. Additionally, the digital output can be converted to nanoamp output with the OptaSync™ signal conditioner.

The B2030 threads directly into any SU100 series gas well using the sensor's Pg13.5 threaded fitting. Hand tightened. No tools needed.

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| Model | B2030 |
| Part Number | B2030-120-V8 |

Sensor Specifications

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| Measurement Range | 0 - 300% SAT |
| Operational Temp. Range | 5°–50° C |
| Pressure Range | 0–5 bar |
| Response Time: | T ₉₈ < 15 seconds at 37° C; N2 to AIR T ₉₈ < 15 seconds at 37° C; AIR to N2 |
| Accuracy | Within 1% full scale (% SAT) |
| Sterilization Temperature | Not heat sterilizable. For use only with SU100 series single-use BPC gas wells. |
| Insertion Length | 120 mm |
| Sensor/BPC Gas Well Interface | Pg13.5 Threads |
| Sensor Connector | 8-pin Variopin |
| Sensor Output | • SensorTalk™, RS232 to Transmitter • Modbus RTU (with SmartSync™) • nAmp output (with OptaSync™ Module) |
| Power Supply | 5 VDC supplied by SmartSync™ or transmitter |
| Storage Temperature | 5°–35° C [41°–95° F] |
| Shelf Life | 48 months (optical membrane) |



OptaProbe™ Optical DO Sensor

Features

- Sensor works behind sterile barrier of any SU100 series gas well; does not need to be sterilized
- Internal memory chip retains detailed sensor calibration data and metadata

Benefits

- Saves time and work, lessens risk of sensor failure
- Sensor-specific saved data facilitates sensor performance tracking

Dimensional Drawings of B2030-120-V8

