

Description

The B2030 is an optical dissolved oxygen (DO) sensor with a domed measuring surface designed and optimized for use with SU100 series BPC gas wells. 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 BPC gas well using the sensor's Pg13.5 threaded fitting. Hand tightened. No tools needed.

Model	B2030
Part Number	B2030-120-V8

Sensor Specifications

Measurement Range	0 - 300% SAT
Operational Temp. Range	5°–50° C [41°–122° F]
Pressure Range	0–3750 mmHg [0–72 psig]
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

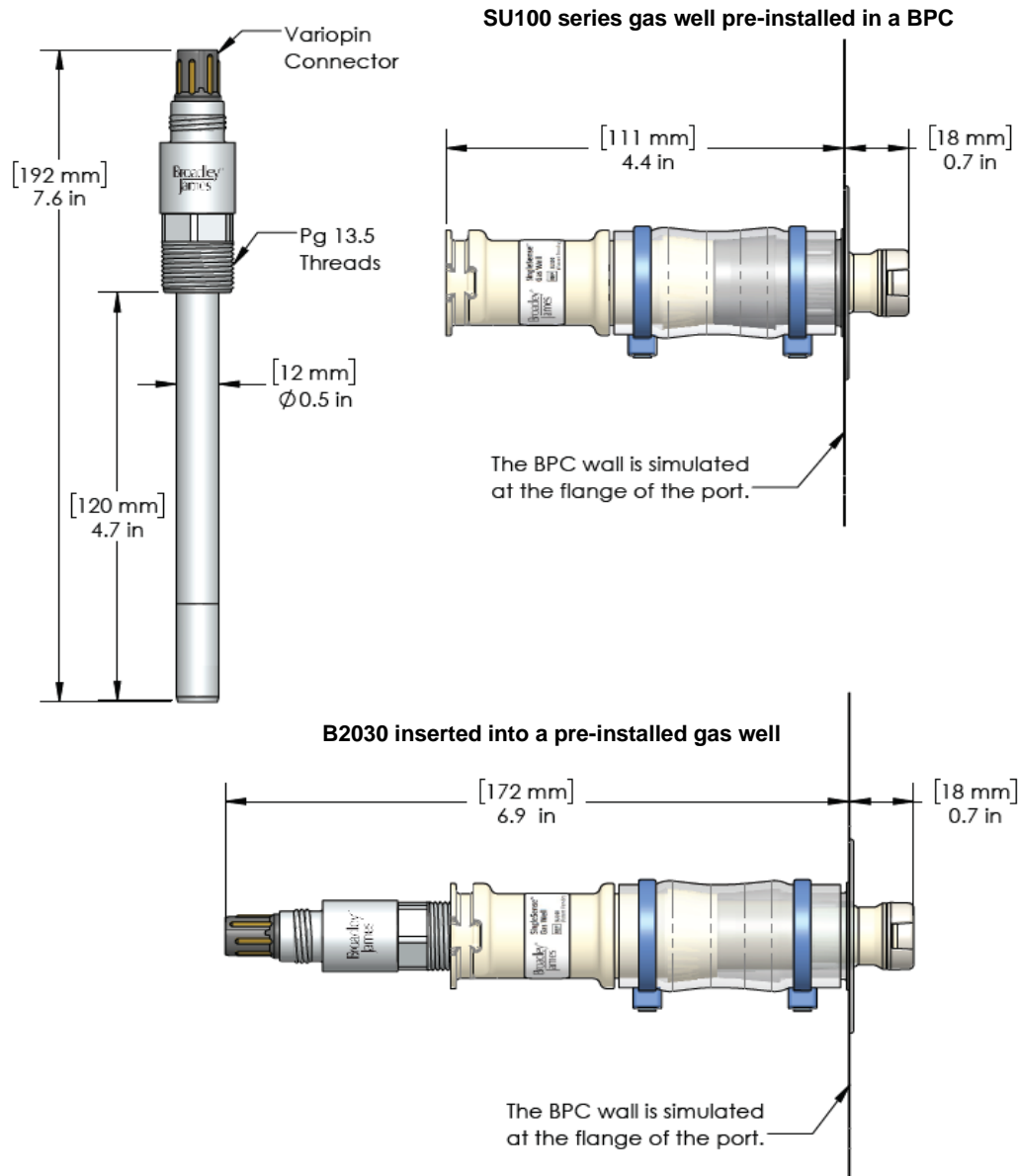
Features

- Sensor works behind sterile barrier of any SU100 series BPC 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



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