

Orion ionplus® Series Monitors Specifications



1816DO Dissolved Oxygen Monitor

Features:

- Low-level detection - 0.1 ppb
- Galvanic cell with low-level guard ring
- 316 stainless steel flow cell
- Digital LCD readout
- Built in alarms and relays
- Pre-assembled Teflon®† membrane module for easy replacement

Markets:

- Power
- Pulp and Paper
- Chem / Petrochemical

Applications:

- Boiler feed water
- Ultra pure water
- Process steam
- Deaerator outlet
- Condensate
- Oxygen feed control for plants using oxygen treatment chemistry

Specifications	
1816DO	
Measuring Range:	0.1 ppb-300 ppb dissolved oxygen
Calibration Range:	0-10 ppm oxygen in water saturated air
Accuracy:	0.1 ppb ± 2%, whichever is greater
Response Time:	1 min, from high to low levels
Signal Output:	4-20 mA or 0-20 mA 0-5V or 1-5V DC Bi-directional RS232, 2 relay
Sample Requirements:	Temperature: 2 to 45°C (35 to 113°F) Flow: 50-200 mL/min pH: > 4 Pressure: < 4 bar (60 psi)
Calibration:	Automatic in water saturated air
Protection Rating:	NEMA 4X/IP65
Electrical Requirements:	115/230V AC 50/60 Hz 50 watts
Shipping:	Dimensions: (LxWxD) 16x26x9 cm (6.3x10.24x3.54 in) Weight: 4.9 kg (10.8 lbs)

Ordering Information	
Cat. No.	Description
*1816DO:	Low-level dissolved oxygen monitor, complete with flow cell, maintenance kit and electrode with 10 foot shielded cable, 115/230V
1816D2:	Low-level dissolved oxygen monitor, 115/230V (without electrode)
1816FP:	Portable fluidics panel, with needle valve and bypass, quick connect fitting, for easy hook up (shown above with monitor and electrode attached)
181621:	Low-level dissolved oxygen probe, with 10 foot shielded cable
181621X:	Low-level dissolved oxygen probe, custom length shielded cable (30 foot max)
181622:	Maintenance kit, with membrane module, o-ring, and fill solution
223115-S01:	Flow cell assembly



Dissolved Oxygen Probe
and Filling Solution

*Note: 1816DO shown with 1816FP fluidics panel. Requires purchase of 1816FP

Above data generated under optimal/controlled circumstances.

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† Teflon is a registered trademark of DuPont

