

Orion ionplus® Series Monitors Specifications



2095 Phosphate Monitor

Features:

- 0.006 ppm detection limit
- 1 or 2 reagent addition method
- 6 stream capability (1 standard)
- Ease of use with digital alphanumeric readout
- Grab sample capability
- Accurate reagent metering for low and high levels
- Fully programmable for individual needs - 10 stored methods
- Fully programmable AUTOCAL™
- Analog and digital outputs
- Stores last 25 calibrations and last 120 measurements
- Rugged NEMA 4X enclosure

Markets:

- Power
- Semiconductor
- Pharmaceutical
- Pulp and Paper
- Chem / Petrochemical

Applications:

- Demineralizer effluent
- Boiler water

Environmental Instruments Water Analysis Instruments

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S-2095-E 1006 RevA

Specifications

2095 Phosphate

Measuring Range:	0-60 ppm PO ₄
Methods:	A. Molybdenum-Blue – Stannous Chloride / Range = 0 - 5 ppm as phosphate (PO ₄) B. Molybdenum-Blue – Ascorbic Acid / Range = 0 - 10 ppm as phosphate (PO ₄) C. Vanadomolybdate / Range = 0 - 60 ppm as phosphate (PO ₄) The methods are Phosphate in water using the absorption band at 490 nm with a reference wavelength at 810 nm, and utilizing a single beam dual wavelength using a fiber-optic probe in the transfection mode.
Limits of Detection:	A. 0.006 ppm B. 0.03 ppm C. 0.5 ppm
Response Time:	A. < 10 min. B. < 15 min. C. < 5 min.
Signal Output:	0 - 10 mV, 0 - 100 mV, 0 - 1 V, 4 - 20 mA RS232 bi-directional modem
Sample Requirements:	Temperature: 5 to 70 °C (41 to 158 °F) Pressure: (0.2 - 3 bar) (2 - 50 psi) Flow: 50 - 900 mL/min
Sample Streams:	1 standard, 2-6 optional
Calibration:	Automatic - fully programmable
Enclosure Rating:	NEMA 4X, IP65
Electrical Requirements:	110 / 115 / 220 / 240 V AC 50 / 60 Hz 100 watts
Shipping:	Dimensions (L x W x D): 76 x 76 x 48 cm (30 x 30 x 19 in) Weight: 44 kg (96 lbs)

Ordering Information

Cat. No.	Description
209500:	Phosphate analyzer, single stream
2095S2:	Phosphate analyzer, 2 streams
2095S3:	Phosphate analyzer, 3 streams
2095S4:	Phosphate analyzer, 4 streams
2095S5:	Phosphate analyzer, 5 streams
2095S6:	Phosphate analyzer, 6 streams
*2095RE:	Reagent kit, 1 month
209502:	2 ppm standard
209510:	100 ppm standard
209520:	50 ppm standard, 10 liters (2.6 gallons), for automatic calibration
2095MK:	Maintenance kit, 3 months, check valves for reagent tubing, pump seals, silicon oil, reaction cell O-ring kit, C-flex tubing
2030GS:	Phosphate/Silica grab sample kit
2030GP:	Phosphate/Silica grab sample kit spare parts
2030LA:	Replacement tungsten lamp



Phosphate Reagent and Standard



Grab Sampler

*Contains hazardous material

Above data generated under optimal/controlled circumstances.



Analyze • Detect • Measure • Control™

Thermo
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