

Orion ionplus® Series Monitors Specifications



1770

Total Residual Chlorine

Features:

- 1 ppb detection limit
- Provides lowest level of detection
- Reliable
- Low operating cost
- Solid state electrode
- U.S. EPA approved method
- Measures unfiltered wastewater
- Measures other oxidants such as bromine

Markets:

- Power
- Desalination plants
- Reverse osmosis
- Wastewater treatment

Applications:

- Cooling water
- RO membrane protection
- Effluent samples
- Compliance monitoring

Environmental Instruments Water Analysis Instruments

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S-1770-E 0506 RevB

Specifications

1770

Measuring Range:	0.001-10 ppm total residual chlorine 4-decade scale standard. Other ranges available
Accuracy:	± 10% of reading
Response Time:	90% within 2 min
Signal Output:	4-20 mA or 0-5V
Sample Requirements:	Temperature: 5 to 45°C (40 to 113°F) Flow: 2-20 L/min Total alkalinity: < 500 ppm CaCO ₃
Calibration:	2 point calibration
Electrical Requirements:	115V AC (177001) 50/60 Hz 220V AC (177003) 50/60 Hz 230 watts
Shipping:	Dimensions: (LxWxD) 154x64x33 cm (60x25x13 in) Weight: 102 kg (225 lbs)

Ordering Information

Cat. No.	Description
177001:	Total residual chlorine monitor, complete with chlorine electrode, and manual, 115V
177003:	Total residual chlorine monitor, complete with chlorine electrode, and manual, 220V
100020:	Chlorine electrode
177015:	Calibration equipment kit, for use with Calibration refill kit (177013)
*177050:	Chlorine consumables kit
*177013:	Calibration refill kit, for use with calibration equipment kit
*177011:	Reagent, 900 mL concentrated acid and 54 grams Iodide reagent powder, requires dilution with deionized water to 5 gallons, for 30 days
177012:	Iodide powder reagent, four 54 gram bottles, 4 months
177014:	Standards A and B, 4 bottle pack, requires 177041 and 177042 reagents
177041:	Iodide reagent, five 2 oz. bottles, for use with 177014 standards
*177042:	Acid reagent, five 2 oz. bottles, for use with 177014 standards
170013:	Tubing kit
948201:	Electrode polishing strips, twenty-four, 6 inch strips
150084:	Signal linearizer



Chlorine Electrode and Standards

**Contains hazardous material*

Above data generated under optimal/controlled circumstances.

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Analyze • Detect • Measure • Control™

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