

Simultaneously measures conductivity, temperature, depth or level, & pH/ORP as well as dissolved oxygen, turbidity, chlorophyll & blue green algae (4 Ports)

Multi-Parameter Water Quality Probe* 5600-0703

- ✓ *Field-Replaceable Sensors*
- ✓ *Extended In Situ Monitoring Periods*

Features

- ▶ With 2 or 4 optical ports & multiple sensor options including
 1. Simultaneous measurement of **Conductivity (Salinity), Temperature, Depth or Level, pH/ORP**. (Basic Probe)
 2. Options to simultaneously measure your choice of either 2 additional parameters or 4 additional parameters from the following : **Dissolved Oxygen, Turbidity, Chlorophyll, & Blue-Green Algae**
 3. Additional Option: **Calculated Parameters** including **Total Dissolved Solids, Resistivity, & Specific Conductance**
- ▶ New optical sensor design & **anti-fouling wiper control** for improved reliability during extended deployments.
- ▶ Self-cleaning optical sensors with integrated wipers remove biofouling & maintain high data accuracy
- ▶ **Field-replaceable sensors** make trips to the field quick
- ▶ Optimal power management & built-in battery compartment extends in situ monitoring periods
- ▶ **Optical Dissolved Oxygen Sensor** uses lifetime luminescence detection technology to offer the most reliable oxygen sensor with the lowest possible maintenance effort. The sensor is insensitive to hydrogen sulfide interference and does not require regular membrane changes.
- ▶ Whether providing early warning to an algal bloom, tracking taste & odor-causing species in drinking water supplies, or conducting ecosystem research, the florescence-based **Blue-Green Algae (BGA) Sensor** provides sensitive & reliable in situ data.
- ▶ The Multi-Parameter Water Quality Probe uses sensor technology verified through the **US EPA's Environmental Technology Verification Program (ETV)**.
- ▶ A **Pressure Sensor** is an option on both the 2-port & 4-port versions.
- ▶ Logs all parameters at programmable intervals & stores up to 150,000 data sets.
- ▶ 75-day battery life at 15-minute logging intervals
- ▶ Designed for in situ monitoring and profiling
- ▶ Extend deployment intervals by 3 times or more with **NEW anti-fouling kits**.



Ordering

TWO BASIC VERSIONS ARE AVAILABLE:

4 OPTICAL PORTS	Conductivity/temperature port Rapid Pulse DO port pH or pH/ORP port 3 ISE ports
2 OPTICAL PORTS	Conductivity/temperature port pH or pH/ORP port (NEW wiped sensor available)

BASIC PROBES

5600-0703-1	Multiparameter Water Quality Probe with 2 Optical Ports (Basic Probe: Conductivity [Salinity], Temperature, Depth or Level, pH/ ORP)
5600-0703-2	Multiparameter Water Quality Probe with 4 Optical Ports (in addition to 2-Port Measurements also measures Dissolved Oxygen, Turbidity, Chlorophyll & Blue-Green Algae)

SENSOR OPTIONS

1.	5600-	Reliable Optical Dissolved Oxygen % Saturation
2.	5600-	Reliable Optical Dissolved Oxygen mg/L
3.	5600-	Dissolved Oxygen % Saturation 6562 Rapid Pulse Sensor
4.	5600-	Conductivity 6560 Sensor
5.	5600-	Salinity
6.	5600-	Temperature 6560 Sensor
7.	5600-	pH 6561 Sensor
8.	5600-	ORP
9.	5600-	Depth (see specifications for depth options)
10.	5600-	Turbidity 6136 Sensor
11.	5600-	Nitrate/Nitrogen
12.	5600-	Ammonium/Ammonia/Nitrogen
13.	5600-	Chloride
14.	5600-	Rhodamine
15.	5600-	Blue-Green Algae Phycocyanin
16.	5600-	Blue-Green Algae Phycoerythrin
17.	5600-	Chlorophyll 6025 Sensor

Dimensions

Diameter	3.5 in. (8.9 cm)
Length (no depth)	19.6 in. (49.8 cm)
Length (with depth)	21.6 in. (54.9 cm)
Weight	7 lbs. (3.18 kg)

(Batteries installed w/depth)



*The Multi-Parameter Water Quality Sensor is provided strictly as a component of a complete monitoring station or system. Sensor not sold or quoted individually.



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SPECIFICATIONS		(Subject to change without notice)		
PARAMETER/SENSOR	RANGE	RESOLUTION	ACCURACY	
Optical Dissolved Oxygen % Saturation*	0 to 500%	0.1%	0 to 200%±1% of reading or 1% air saturation, whichever is greater; 200 to 500%: ±15% of reading	
Optical Dissolved Oxygen mg/L*	0 to 50 mg/L	0.01 mg/L	0 to 20 mg/L: ±0.1 mg/L or 1% of reading, whichever is greater; 20 to 50 mg/L: ±15% of reading	
Dissolved Oxygen-- % Saturation** 6562 Rapid Pulse™ Sensor* ET✓	0 to 500%	0.1%	0 to 200%: ±2% of reading or 2% air saturation, whichever is greater; 200 to 500%: ±6% of reading	
Dissolved Oxygen mg/L** 6562 Rapid Pulse™ Sensor* ET✓	0 to 50 mg/L	0.01 mg/L	0 to 20 mg/L: ±0.2 mg/L or 2% of reading, whichever is greater; 20 to 50 mg/L: ±6% of reading	
Conductivity*** 6560 Sensor* ET✓	0 to 100 mS/cm	0.001 to 0.1 mS/cm (range dependent)	±0.5% of reading + 0.001 mS/cm	
Salinity	0 to 70 ppt	0.01 ppt	±1% of reading or 0.1 ppt, whichever is greater	
Temperature 6560 Sensor* ET✓	-5 to +50°C	0.01°C	±0.15°C	
pH 6561 Sensor* ET✓	0 to 14 units	0.01 unit	±0.2 unit	
ORP	-999 to +999 mV	0.1 mV	±20 mV	
Depth				
Deep	0 to 656 ft, 200 m	0.001 ft, 0.001 m	±1 ft, ±0.3 m	
Medium	0 to 200 ft, 61 m	0.001 ft, 0.001 m	±0.4 ft, ±0.12 m	
Shallow	0 to 30 ft, 9.1 m	0.001 ft, 0.001 m	±0.06 ft, ±0.02 m	
Vented Level	0 to 30 ft, 9.1 m	0.001 ft, 0.001 m	±0.01 ft, 0.003 m	
Turbidity* 6136 Sensor* ET✓	0 to 1,000 NTU	0.1 NTU	±2% of reading or 0.3 NTU, whichever is greater**	
Nitrate/nitrogen****	0 to 200 mg/L-N	0.001 to 1 mg/L-N (range dependent)	±10% of reading or 2 mg/L, whichever is greater	
Ammonium/ammonia/nitrogen****	0 to 200 mg/L-N	0.001 to 1 mg/L-N (range dependent)	±10% of reading or 2 mg/L, whichever is greater	
Chloride****	0 to 1000 mg/L	0.001 to 1 mg/L (range dependent)	±15% of reading or 5 mg/L, whichever is greater	
Rhodamine*	0-200 µg/L	0.1 µg/L	±5% reading or 1 µg/L, whichever is greater	
<p>* Maximum depth rating for all optical probes is 200 feet, 61 m. Turbidity and Rhodamine are also available in a Deep Depth option (0 to 200 m). ** Rapid Pulse is only available on 6600V2-2 (two optical ports version). *** Report outputs of specific conductance (conductivity corrected to 25° C), resistivity, and total dissolved solids are also provided. These values are automatically calculated from conductivity according to algorithms found in Standard Methods for the Examination of Water and Wastewater (ed 1989). **** Freshwater only. Maximum depth rating of 50 feet, 15.2 m. 6600 V2-2 has 3 ISE ports; not available on the 6600V2-4. ** In YSI AMCO-AEPA Polymer Standards.</p>				
PARAMETER/SENSOR	RANGE	DETECTION LIMIT	RESOLUTION	LINEARITY
Blue-Green Algae Phycocyanin*	~0 to 280,000 cells/mL 0 to 100 RFU	~220 cells/mL	1 cell/mL 0.1 RFU	R2 > 0.9999**
Blue-Green Algae Phycoerythrin*	~0 to 200,000 cells/mL 0 to 100 RFU	~450 cells/mL	1 cell/mL 0.1 RFU	R2 > 0.9999***
Chlorophyll* 6025 Sensor* ET✓	~0 to 400 µg/L 0 to 100 RFU	~0.1 µg/L	0.1 µg/L Chl 0.1% RFU	R2 > 0.9999****
<p>*Optical probe maximum depth rating is 200 feet, 61 m. (Deep Depth 0-200 m available) RFU = Relative Fluorescence Units † Explanation of Ranges in 'Principles of Operation' section of the 6-Series Manual, Rev D. § Estimated from cultures of Microcystis aeruginosa. §§ Estimated from cultures Synechococcus sp. §§§ Using Isochrysis sp. & chlorophyll cultures for concentration ***For serial dilution of Rhodamine WT (0-400 µg/L). ****For serial dilution of Rhodamine WT (0-8 µg/L). *****For serial dilution of Rhodamine WT</p>				
MISCELLANEOUS				
Medium	Fresh, sea or polluted water		Communications	RS-232, SDI-12
Operating Temperature	-5 to +50°C		External Power	12 VDC
Storage Temperature	-10 to +60°C		Internal Power	8 C-size alkaline batteries



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