

Examples of Water Quality Monitoring Equipment

Parameter	Item	Features	Source	Price Estimate
Water Temperature	Data Logger	Accuracy +/- 0.5 C or Better. Waterproof Sealed Unit. Delayed Start-up. 8K Memory.	Vemco "Minilog-TR" (902) 852-3047 or Onset "Optic StowAway" (508) 759-9500	\$135
Water Temperature	NIST Traceable Thermometer	Used to check accuracy of data loggers and for field measurements Accuracy +/- 0.2 C Digital Readout. For use with YSI series 400 thermister probes.	VWR. (800) 932-5000 Meter cat. no. 61220-670 Probe cat. no. 61248-000	\$325 \$50
Dissolved Oxygen	Winkler Titration Kit	Accuracy +/- 0.3 mg/l Liquid or powdered reagents. 300 ml sample bottle. Titrate equivalent to 200 ml of sample with burette or "Digital Titrator".	Reagents are available from Hach Co. (800) 227-4224 Hach Digital Titrator Oxygen test kit. Model OX-DT Reagents (\$6 - 20) 1071-66 manganous sulfate 1072-66 alkaline azide 20762-66 sulfamic acid 22675-01 sodium thiosulfate 349-02 starch	\$43.50 (50 tests) \$190.75
pH	pH Meter	Instrument + Probe accuracy of +/- 0.2 Digital Readout to 0.01 SU. Two-point Calibration. Automatic Temperature Compensation (ATC).	VWR (800) 932-5000 or Fisher (800) 766-7000 Example: Orion 210A meters with accessory ATC probe.	\$450
pH	pH Electrode	<i>Designed for use in low ionic strength water. Research Quality.</i>	VWR.(800) 932-5000 or Fisher (800) 766-7000 Orion Ross Electrode Model 81-02 or Model 815600 Electrode storage solution: Orion 910060: \$45 pH buffers, 7 and 10, box of 6: \$75	\$290
pH	Ionic Strength Adjuster	Used to increase the ionic strength of samples without altering the pH. Shortens probe response time and stabilizes meter reading. Use 1ml per 100 ml sample.	VWR (800) 932-5000 or Fisher (800) 766-7000 Orion pHisa (Orion 700003)	\$95

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Parameter	Item	Features	Source	Price Estimate
Conductivity	Meter	Accuracy +/- 0.5% full scale. Automatic Temperature Compensation. Digital Readout.	VWR. (800) 932-5000 or Fisher (800) 766-7000 Yellow Springs Instruments Model 30. Primary Standard 500 mL - \$20	\$625
Turbidity	Meter	Accuracy +/- 5%. Portable. Incandescent Lamp. Four-Point Calibration. Auto-range. Digital Readout.	Hach Co. (800) 227-4224 Model 2100P	\$775
Turbidity	Standards	Stabilized Formazin Primary Standards for quarterly instrument calibration.	Hach Co. (800) 227-4224 Sealed Ampule Set for meter 2100P. Cat. no. 26594-05	\$75
Flow	Meter	Working velocity range <0.2 ft/sec.	Advanced Measurement and Controls (425) 489-9887 model: Price AA and Pygmy meters	\$550 - 750
Flow	Top-setting Rod	Five-foot rod suitable for wading.	Advanced Measurement and Controls (425) 489-9887 Accessories: Headphones \$65 Beeper \$110 Stop watch \$55	\$355
Macroinvertebrate	D-frame Kick Net Handle		Wards Biology (800) 962-2660	\$25
Macroinvertebrate	D-frame Net	500 micron sieve opening. Net made to fit D-frame.	Research Nets (206) 821-7345	\$35
E. coli Bacteria	Colilert QuantiTray 2000	Automated sample dilution. Most Probable Number method. Simple process. Prepared, pre-packaged reagents.	Idexx Laboratories (800) 321-0207 Accessories: 200 Colilert reagent WP200 - \$600 Colilert-18 - \$700 200 Vessels - \$90 Comparator WP104 - \$6 100 Quantitray 2000 trays - \$110	\$3,500