

Field Colorimeter

Thermo Scientific Orion AQUAfast IV® AQ4000

The Orion AQUAfast IV® AQ4000 multi-wavelength colorimeter stores up to 189 pre-programmed methods. A simple upload procedure updates the colorimeter with the most current programs. The upload keeps the AQ4000 always current.

FEATURES

The Thermo Scientific Orion AQ4000 Advanced Field Colorimeter is packed with features which make water analysis as simple as 1, 2, 3.

- 1 Place the sample in the Auto-Test™ cuvette
- 2 Position the cuvette in the AQ4000. The AQ4000 automatically identifies your species of interest
- 3 Read the result from the display

The Orion AQ4000 features Auto-ID, which when used with Orion Auto-Test cuvettes, automatically identifies the species to be measured, selects the method, wavelength and reaction timer. The user never needs to push a button! The Auto-ID ensures the reagent is matched to the method.

The Auto-test cuvettes are specially designed to work with the Orion AQUAfast AQ4000 colorimeter. They take all the guesswork out of sample preparation because the reagent is pre-measured. The Auto-Test cuvettes are opened only when a measurement is about to be taken; reagent quality is never an issue.

This rugged and attractive unit is waterproof to IP67 standards. It is so advanced that a user can create a custom method and customize calibration. Up to 5 data points can be used to define a custom method. Ten custom methods can be stored in the colorimeter's memory. The simple interface steps a user through setup and measurement.

Selection of display units is push-button easy: concentration, absorbance or percent transmittance. Datalog 100 points in the field with a time and date tag and then download to a printer or computer in the lab. In addition to the Auto-Test cuvettes, the AQ4000 accepts round cuvettes with diameters of 13, 16 and 24 mm. Best of all, the Orion AQ4000 carries a two-year warranty!



SPECIFICATIONS

Chemistries	Range (mg/L)	# of Tests	Chemistries	Range (mg/L)	# of Tests	Chemistries	Range (mg/L)	# of Tests
Alkalinity – m:	(T) 5-200	100	Cyanide: Free	(A) 0.020-0.50	30	Ozone:	(A) 0.20-2.50 (T) 0.05-0.5	30 100
Aluminum:	(A) 0.05-0.25 (T) 0.05-0.30	30 50	Fluoride: SPADNS	(A) 0.20-2.0 (T) 0.01-2.0	30 30	pH:	(T) 6.5-8.4	100
Ammonia:	ULR (A) 0.10-3.00 LR (A) 0.50-7.00 HR (A) 1.0-16.0	30 30 30	Hydrazine:	(A) 0.10-1.20 (T) 0.05-0.50	30 30	Phosphate/Phosphorous:	LR as PO ₄ (A) 0.75-8.00 LR as PO ₄ (T) 0.05-4.0 HR as PO ₄ (A) 5-80 HR as PO ₄ (T) 10-100 LR as P (P) 0.07-2.50	30 50 30 50 100
2 Ranges as N Nitrogen as N	(T) 0.05-1.0 / 0.5-10.0 (P) 0.01-0.50	50 100	Iron: 1 Total & Soluble 2 Ranges Ferro TPTZ	(A) 0.45-7.00 (T) 0.02-1.0 / 0.2-10 (P) 0.02-3.00 (P) 0.02-1.80	30 100 100 100	Silica:	(A) 1.0-14.0 (T) 0.05-4.0 HR (P) 1.0-75.0 PO ₄ Removal (T) NA	30 50 100 100
Bromine:	(A) 0.75-9.00 (T) 0.1-13.5	30 100	Manganese:	(A) 1.0-30.0 (T) 0.05-4 (P) 0.2-20.0	30 50 100	Sulfate:	(A) 5-70 (T) 5-200 (P) 2-70	30 100 100
Chloride:	(A) 2.0-40 (T) 0.5-25	30 50	Molybdate: Molybdenum, HR	(A) 1.5-30.0 (P) 0.3-40.0	30 100	Sulfide: Soluble	(A) 0.20-3.0 (T) 0.05-0.50	30 50
Chlorine Dioxide:	(A) 0.80-12.00 (T) 0.04-2.8	30 100	Nitrate: as N – LR as N – MR as NO ₃ – HR as NO ₃	(A) 0.15-1.50 (A) 0.25-3.00 (A) 5.0-60.0 (T) 1-40	30 30 30 50	Zinc:	(A) 0.30-3.0	30
Chlorine: Free & Total Free & Total Free Total Free – DPD Total – DPD	(A) 0.40-6.0 (T) 0.05-6.0 (T) 0.05-6.0 (T) 0.05-6.0 (P) 0.03-2.0 (P) 0.03-2.0	30 50 100 100 100 100	Nitrite: LR as N	(A) 0.080-0.800 (T) 0.05-0.50 (P) 0.03-0.350	30 100 100	Key (A) = Ampoules (P) = Powders (T) = Tablets		
Copper: Soluble Biquinoline Copper/Zinc Bicinchoninate	(A) 1.00-14.00 (T) 0.05-5.0 (T) 0.02-1.0 (P) 0.05-5.00	30 50 50 100	Oxygen:	(A) 2.0-15.0	30			

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