

Colorimetry/Water Analysis Colorimetry

Orion AQUAfast IV Field Colorimeter

The Orion AQUAfast IV AQ4000 multi-wavelength colorimeter stores up to 189 pre-programmed methods. As new tests are available, a simple upload procedure updates the colorimeter with the most current programs. The upload takes but a few minutes and keeps the AQ4000 always current.

FEATURES

Thermo Electron introduces the Orion AQ4000 Advanced Field Colorimeter, packed with features which make water analysis as simple as 1, 2, 3.

- Place the sample in the Auto-Test™ cuvette,
- Position the cuvette in the AQ4000. The AQ4000 automatically identifies your species of interest,
- 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!



Key

- (A) = Ampoules
- (P) = Powders
- (T) = Tablets

Orion AQUAfast Chemistries cont.

Orion AQUAfast Chemistries

Chemistries	Range (mg/L)	# of Tests
Alkalinity - m	(T) 5-200	100
Aluminum	(A) 0.05-0.25	30
	(T) 0.05-0.30	50
Ammonia	ULR (A) 0.10-3.00	30
	LR (A) 0.50-7.00	30
	HR (A) 1.0-16.0	30
	2 Ranges as N (T) 0.05-1.0 / 0.5-10.0	50
	Nitrogen as N (P) 0.01-0.50	100
Bromine	(A) 0.75-9.00	30
	(T) 0.1-13.5	100
Chloride	(A) 2.0-40	30
	(T) 0.5-25	50
Chlorine Dioxide	(A) 0.80-12.00	30
	(T) 0.04-2.8	100
Chlorine	Free & Total (A) 0.40-6.0	30
	Free & Total (T) 0.05-6.0	50
	Free (T) 0.05-6.0	100
	Total (T) 0.05-6.0	100
	Free - DPD (P) 0.03-2.0	100
	Total - DPD (P) 0.03-2.0	100
Copper	Soluble (A) 1.00-14.00	30
	Biquinoline (T) 0.05-5.0	50
	Copper/Zinc (T) 0.02-1.0	50
	Bicinchoninate (P) 0.05-5.00	100

Chemistries	Range (mg/L)	# of Tests
Cyanide	Free (A) 0.020-0.50	30
Fluoride	SPADNS (A) 0.20-2.0	30
	SPADNS (T) 0.01-2.0	30
Hydrazine	(A) 0.10-1.20	30
	(T) 0.05-0.50	30
Iron	1 Total & Soluble (A) 0.45-7.00	30
	2 Ranges (T) 0.02-1.0/0.2-10	100
	Ferro (P) 0.02-3.00	100
	TPTZ (P) 0.02-1.80	100
Manganese	(A) 1.0-30.0	30
	(T) 0.05-4	50
	(P) 0.2-20.0	100
Molybdate	(A) 1.5-30.0	30
	(P) 0.3-40.0	100
Nitrate	Molybdenum, HR as N - LR (A) 0.15-1.50	30
	as N- MR (A) 0.25-3.00	30
	as NO3 - HR (A) 5.0-60.0	30
	as NO3 (T) 1-40	50
Nitrite	(A) 0.080-0.800	30
	(T) 0.05-0.50	100
	LR as N (P) 0.03-0.350	100
Oxygen	(A) 2.0-15.0	30
Ozone	(A) 0.20-2.50	30
	(T) 0.05-0.5	100
pH	(T) 6.5-8.4	100
Phosphate / Phosphorous	LR as PO4 (A) 0.75-8.00	30
	LR as PO4 (T) 0.05-4.0	50
	HR as PO4 (A) 5-80	30
	HR as PO4 (T) 10-100	50
	LR as P (P) 0.07-2.50	100
Silica	(A) 1.0-14.0	30
	(T) 0.05-4.0	50
	HR (P) 1.0-75.0	100
	PO4 Removal (T) NA	100
Sulfate	(A) 5-70	30
	(T) 5-200	100
	(P) 2-70	100
Sulfide	Soluble (A) 0.20-3.0	30
	(T) 0.05-0.50	50
Zinc	(A) 0.30-3.0	30

Geotech Environmental Equipment, Inc.

2650 East 40th Avenue • Denver, Colorado 80205

(303) 320-4764 • (800) 833-7958 • FAX (303) 322-7242

email: sales@geotechenv.com website: www.geotechenv.com