



Thermo Scientific Orion AQ3700 Colorimeter

Featuring digestion tests for nitrogen, phosphate and COD



The Orion AQ3700 is the newest addition to the colorimetry line. With over 70 pre-programmed method options, this IP67 waterproof portable meter offers liquid, powder and tablet tests for expanded ranges and test options. There are six wavelengths generated by the long life LEDs in the meter. This instrument has a graphical display that is easy to understand and can be used in English, Spanish, German, French, Italian, or Polish.

See pages 122-125 for additional AQ3700 reagents.

Specifications

Specifications	Description
Incident Light Source	6 light emitting diodes (LED)
Wavelengths	430, 530, 560, 580, 610, 660 nm
Photometric Precision	2 % full scale as measured with standard solutions
Photometric Resolution	±0.005 Abs
Software	
Test Methods	Preprogrammed with user prompts and feedback, efficient user's favorite list
Autoranging	Yes
Blank Capability	Per method
Test Reagent Formats	Powder, tablet, liquid, reagent reaction tubes, acid digestion tubes
Datalog Points	Up to 1000, time and date stamp
New Method Upload Capability	Yes, via internal RJ45 port
Meter Hardware	
Display	Backlit, graphic display
Inputs	12 button numeric keypad, plus 3 function keys
Sample Required	10 mL
Sample Cells Accepted	24 mm sample vials; 13 mm ampoules and 16 mm tubes with included adapters
Outputs	IRDA (adapter required)
Auto Shut Down	20 min after last key-press, wakes to last location
Power	4 AA batteries (>3000 tests)
Regulatory and Safety	CE, FCC part 15
Environmental Conditions	5 to 40 °C (30 to 90 % non-condensing at 30 °C)
Meter Waterproof Rating	IP67
Warranty	2 years

New Reagents for AQ3700

Cat. No.	New Test	Range, mg/L	Reagent Type
AC2002	Alkalinity-m/ Acid Demand pH 4.3	5 to 200/ 0.1-4 mmol/L	Tablet
AC3002P	Alkalinity-p	5 to 500	Tablet
AC4P27	Aluminum, LR	0.01 to 0.25	Tablet & liquid
ACR012	Ammonia, LR	0.02 to 2.5	Powder & reaction tube
ACR011	Ammonia, HR	1 to 50	Powder & reaction tube
AC3072	Chlorine total HR/ Sodium Hypochlorite	5 to 200/ 0.2 to 16 % NaOCl	Tablet
AC3032C	Hardness, Calcium	50 to 900	Tablet
AC3032C2	Hardness, Calcium 2 LR	0 to 500	Tablet
AC3032T	Hardness, total	2 to 50	Tablet
AC4P54	Manganese, LR	0.01 to 0.7	Powder & liquid
ACR007	Nitrate	1.0 to 30.0	Powder pack & reaction tube
AC4P46	Nitrite	0.01 to 0.3	Powder pack
ACD004	Nitrogen, total, LR	0.5 to 25	Powder pack & digestion tube
ACD007	Nitrogen, total, HR	5 to 150	Powder pack & digestion tube
ACR095	Phosphate, ortho	0.06 to 5	Powder pack & reaction tube
ACD095AH	Phosphate, acid hydrolyzable	0.02 to 1.6	Powder pack & digestion tube
ACD095	Phosphate, total	0.02 to 1.1	Powder pack & digestion tube
AC3001TB	pH	8.0 to 9.6	Tablet
AC3072	Sodium hypochlorite	0.2 to 16 % NaOCl	Tablet

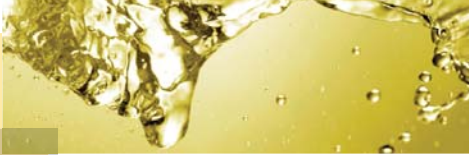
Ordering Information

Cat. No.	Description
AQ3700	Meter kit includes AQ3700 meter, 4 batteries, 4 vials (24 mm), 3 vials (16 mm), 1 adapter each for 16 mm and 13 mm vials, carrying case, user guide with test methods, tablet tampering stir rod and brush. Order reagents and IR adapter separately.

Accessories for AQ3700 Meter

Cat. No.	Description
AC2V16	Replacement 16 mm vials, package of 10
AC2V24	Replacement 24 mm vials, package of 12
AC37A16	Replacement 16 mm adapter for AQ3700
AC37A13	Replacement 13 mm adapter for AQ3700
AC3R0D	Stir rod, package of 10
AC3C8R	Cleaning brush, package of 5
AC3VSK	Meter verification check standards kit
AQ37IRIM	IR data transfer interface module

Many of our long-standing colorimetry tablet and powder reagents as well as COD tests are already programmed into the AQ3700. See pages 122-125 for additional test parameters, meter accessories, digestion supplies, and more reagent options.



Thermo Scientific Orion AQ4000 Colorimeter

The most advanced microprocessor-based LED colorimeter on the market today!

The AQ4000 colorimeter stores up to 189 pre-programmed methods and can record 100 data points in the field with a time and date stamp. Download later to a printer or computer in the lab.

The AQ4000 colorimeter takes all the guesswork out of sample preparation with the Auto-Test™ ampoules and the exclusive Auto-ID™ feature.

Quality of the measurement is assured since the ampoules are only opened when a measurement is about to be taken.

- **Auto-ID:** Automatically identifies the species to be measured, selects the method and the wavelength plus initiates the method – no buttons to push!
- **Auto-Test Ampoules:** Pre-measured liquid reagent ampoules are specially designed to work with the AQ4000

Selection of Display Units is Push-Button Easy

Choose from concentration, absorbance or percent transmittance. The AQ4000 accepts round vials with diameters of 13, 16 or 24 mm. Best of all, the AQ4000 carries a full two year warranty.

Use the AQ4000 with Our Tablets or Powders

- **Tablets:** Quick dissolve tablets that are easy to add to the sample. Tablets can be used with the AQUAfast II series and AQ4000 colorimeters.
- **Powders:** Pre-measured and ready-to-use packets. Just add the packet to the sample, allow it to dissolve and then take your measurement. Many reagents meet regulatory requirements.
- **COD Reagents:** Available in three measurement ranges – low, mid and high range.

Updating the AQ4000 with New Methods is Simple


The latest software updates are available at www.thermoscientific.com/water. A simple download procedure updates the colorimeter with the most current programs in a few quick, easy steps.

See pages 124 and 125 for reagent chemistries that you can use with the AQ4000 colorimeter.

AQ4000 Colorimeter and Accessories

Cat. No.	Description
AQ4000	Orion IV colorimeter only (order reagents separately)
AQ40FK	Replacement field case to carry AQ4000 meter, accessories and reagents
AQ4CBL	RS232 cable for data download and software updates
AQ4ZER	AQUAfast zero kit
AC2V16	16 mm vials, 10 pack
AC2V24	24 mm vials, 12 pack

AQII Series Accessories

Cat. No.	Description
AC2V16	16 mm replacement vials, 10 pack
AC2V24	24 mm replacement vials, 12 pack
AC2T24	24 mm replacement turbidity vials, 12 pack
AC2073	 Chlorine secondary reference standards kit for AQ2070



Signifies a hazardous solution.

See terms and conditions for important shipping information at www.thermoscientific.com/water

Easily create and store your own calibration curve for up to 10 new tests in the meter.



Versatile AQ4000 Meter