

AquaFluor®

Handheld Fluorometer/Turbidimeter



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The AquaFluor® is a lightweight, inexpensive, handheld fluorometer/turbidimeter ideal for field use. Its small size and durability make the AquaFluor® perfect for the user who needs quick measurements away from the laboratory. Dual-channel capability allows users to measure fluorescence and turbidity in one sample. While small in size, performance has not been compromised.

Available Channels

The AquaFluor® can be configured with one or two of the following channels:

- Turbidity
- *In Vivo* Chlorophyll
- Extracted Chlorophyll *a*
- Blue Green Algae - Phycocyanin (freshwater)
- Blue Green Algae - Phycoerythrin (marine)
- Fluorescein Dye
- Rhodamine Dye
- Ammonium
- CDOM/FDOM
- Oil
- Optical Brighteners for Wastewater Monitoring

Contact us for Custom Optical Kits

Highlights of the AquaFluor®

- Dual channels allow for quick toggling between two applications
- Dustproof and waterproof, it even floats!
- Single-point plus blank calibration
- 12 bit resolution
- Operates using AAA batteries for >1,000 measurements per set
- 5 second warm up
- Low maintenance field fluorometer



Optional Accessories

- Internal Data Logging stores up to 1,000 points of data
- Adjustable Solid Secondary Standard provides Quick and Easy Checks of Calibration, Stability and Performance.

Reliable Instruments for an Unreliable World

AquaFluor®

Handheld Fluorometer/Turbidimeter



Application	Minimum Detection Limit	Linear Range
Ammonium	0.1 µM	0 - 100 µM*
CDOM/FDOM	0.1 ppb	0 - 1000 ppb
Chl <i>a</i> Extracted - Acidification	0.5 µg/L	0 - 300 µg/L
Chl <i>in vivo</i>	0.3 µg/L	0 - 300 µg/L
Fluorescein Dye	0.4 ppb	0 - 400 ppb
Oil	3ppm***	400ppm***
Optical Brighteners	0.5 ppm	0-30,000 ppm
Phycocyanin	1 ppb	0-3,500 ppb
(Freshwater Cyanobacteria)	10 ppb	0-20,000 ppb**
Phycoerythrin	150 cells/ml	0 - 150,000 cells/ml
(Marine Cyanobacteria)		
Rhodamine Dye	0.4 ppb	0 - 400 ppb
Turbidity	0.5 NTU	0 - 1000 NTU

* Ammonium linear range >10 µM requires minicell adapter and minicells
** PC linear range >3500 ppb requires minicell adapter and minicells
*** Specifications for Osberg Crude Oil

AquaFluor® Physical Specifications	
Weight in Air	13.9 oz; 0.4 kg
Size	1.75" x 3.5" x 7.25"; 4.45 cm x 8.9 cm x 18.4 cm
Warm-up Time	5 seconds
Case	IP 67 standard; dustproof/waterproof
Temperature	41-104°F; 5-40°C

AquaFluor® Electrical Specifications	
Power	4 AAA batteries (standard or rechargeable)
Detector	Photodiode 300nm-1,000nm capable

Ordering Information

INSTRUMENT	PART NUMBER	AVAILABLE CHANNELS	PART NUMBER
AquaFluor® Handheld Fluorometer/Turbidimeter	8000-010	Turbidity	8000-408
		Chlorophyll <i>in vivo</i>	8000-406
		Chlorophyll <i>a</i> Extracted	8000-407
		Blue Green Algae - Phycocyanin (freshwater)	8000-412
		Blue Green Algae - Phycoerythrin (marine)	8000-411
		Fluorescein Dye	8000-405
		Rhodamine Dye	8000-409
		Ammonium	8000-402
		CDOM/FDOM	8000-401
		Oil	8000-415
		Optical Brighteners for Wastewater Monitoring	8000-403

ACCESSORIES	PART NUMBER
Internal Data Logging	8000-920
Adjustable Solid Secondary Standard*	8000-952
Adjustable Solid Secondary Standard**	8000-951
12mm Test Tube Adapter***	8000-932
Minicell Adapter	8000-936
12x75 mm Round Glass Test Tubes (12 ea)***	10-029A
10x10 mm Square Polystyrene Cuvette (100 ea)****	7000-957
10x10 mm Square Methacrylate Cuvette (100 ea)*****	7000-959
Minicells (200 µL capacity) (1000 ea.)	7000-950

*For use with chlorophyll, phycoerythrin, phycocyanin and rhodamine WT channels only
**For use with fluorescein channel only
***Required for use with extracted chlorophyll
****Recommended for use with turbidity
*****Required for use with UV (<400nm)

Contact us for Custom Optics

Contact Us

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