

Water Tracer Detection Using Handheld Fluorometer

Water-tracing dyes can be used in many useful applications. By adding dye to the water system in question, we can conduct plumbing/piping tracing, leak detection, checking for illegal tapping, pollution studies, natural waterflow analysis (rivers, lakes, ocean currents, cave waterflows, groundwater filtration, etc.), and sewer and stormwater analysis. In addition, in a cooling water system where treatment chemical agents are added to the circulating water to prevent pipelines and equipment from corrosion, scaling, fouling and microbial problems, water tracing dye can be added to the treatment to allow active monitoring of the concentration of the chemical agents to sustain effectiveness of the treatment.

Amiscience offers three light-weight FluoroQuik handheld fluorometers for detecting common types of water tracing dyes: PTSA, fluorescein, and Rhodamine WT. Its exceptional sensitivity, rapid-reading, and reliability in a convenient field kit can be used to detect trace amount (less than 1 ppb) of tracing dye with one single step, right on the spot. Built-in USB interface allows user to retrieve up to 3x80 data points for analysis in the laboratory. We can also provide dual-channel model of your wavelength selections for more flexible applications.

Fluorometer part number:

P/N	Description	Product Type	Single Tube Fluorometer
FQ-PTSA-C	Handheld Fluorometer for PTSA	Read Type	Discrete
FQ-FLCN-C	Handheld Fluorometer for Fluorescein		
FQ-RHDM-C	Handheld Fluorometer for Rhodamine WT	Sample Volume	1 mL
* Includes power adaptor, USB cable, and user manual CD.			
Accessories for field kit:		Detection Limit	1 ppb of dye dissolved in water
Component P/N	Description	Wavelength	PTSA: 360ex/410em Fluorescein: 480ex/530em
CC-215	Compact Field Kit Carrying Case		Rhodamine: 530ex/590em
TPT-500UL-30 CUV-1ML-64	Disposable Transfer Pipette,0.5mL,30pcs/bag Polystyrene Cuvette with Cap, 64pcs/box	Detection Range	0 – 20,000 ppb of dye dissolved in water
		Read Out	Concentration or RFU
		Calibration	2-Point Calibration (Blank and Standard)
Flamplan	Facebook	User Interface	Touch Screen LCD Display
		Power	4 AA Batteries or 5VDC Power Adaptor
		Computer Interface	USB Interface to Recall up to 3x80 Data Points
	Plane o quite Fluoro quite	Dimensions (L x W x H)	185mm x 90mm x 35mm