

ROV-based Long Range Fluorometer LEAKlog®LR



Aquatec's LEAKlog®LR Fluorometer is a cornerstone in the Leak Detection System. This instrument embodies sensitivity in fluorescence leak detection, utilising a spectrum of models to detect various dyes including Rhodamine, Fluorescein, and Ultraviolet markers. Its rugged design, capable of operating at depths up to 3,500 m and detecting leaks up to 10 m range, integrates seamlessly into ROV-based inspections. Ideal for subsea pipeline monitoring, the LEAKlog®LR ensures peace of mind in the most challenging environments.

Specifications

Product	ROV-based Long Range Fluorometer LEAKlog®LR
Country of origin	UK
Manufacturer	Aquatec Group Ltd.

Specifications

Material	Stainless Steel 316L
Depth rating	3.500 meter
Output	0-5 V
Supply voltage	12 - 31 Vdc, 150 mA avg, 500mA pk
Dimensions	100 mm (3.94 in) max diameter x 296 mm (11.65 in) length
Weight	5 kg (11.02 lbs)

Key features

- Multiple models for diverse dye detection (Rhodamine, Fluorescein, and UV)
- Effective in turbid conditions with a detection range of up to 10 m
- Seamless integration with ROVs for operational flexibility
- Real-time analysis and alerting via AQUAtalk™ software
- Engineered for depths up to 3,500 m ensuring robust deep-sea performance

Applications

- Subsea pipeline leak detection during pre-commissioning checks
- Inspection and maintenance of offshore oil and gas infrastructure
- Research applications in marine biology and underwater ecology

Model selection and some detectable dyes and fluids

Dyes and Fluids	Fluorometer Models		
	LEAKlog® LR-FR (Rhodamine)	LEAKlog® LR-FF (Fluorescein)	LEAKlog® LR-UV (Ultraviolet)
Anthracene Derivatives			•
Aquasweep HDW1000 FluorBlue			•
Castrol Brayco Micronic SV3			•
Castrol Transaqua HT		•	
Castrol Transaqua HT2			•
Champion Hydrosure Fluorodye UC	•		
Champion Hydrosure O-3670 RD		•	
Chromophoric Dissolved Organic Matter (CDOM)			•
Clariant Preservan 2140		•	
Clariant Tros Seadye		•	
Dipyrromethene Boron Difluoride (BODIPY)	•		
Eosin Y		•	
Fluorescein		•	
Houghton Chemical Fluids	•		

Model selection and some detectable dyes and fluids

Dyes and Fluids	Fluorometer Models		
	LEAKlog® LR-FR (Rhodamine)	LEAKlog® LR-FF (Fluorescein)	LEAKlog® LR-UV (Ultraviolet)
Lissamine Green B		•	
MacDermid OCEANIC EFC 25		•	
MacDermid OCEANIC HW 443 R	•		
MacDermid OCEANIC HW 443		•	
MacDermid OCEANIC HW 460 R	•		
MacDermid OCEANIC HW 510	•		
MacDermid OCEANIC HW 510 P		•	
MacDermid OCEANIC HW 525	•		
MacDermid OCEANIC HW 525 P		•	
MacDermid OCEANIC HW 540 E	•		
MacDermid OCEANIC HW 540 P		•	
MacDermid OCEANIC HW 720 R	•		
MacDermid OCEANIC HW 740 R	•		
MacDermid OCEANIC Red LTF	•		
MacDermid OCEANIC Yellow LTF		•	
MacDermid PELAGIC 100 (H)	•		
MacDermid PELAGIC 100			•
Naphthalimide			•
Optical Brighteners			•
Pyrenetetrasulfonic Acid Tetrasodium Salt			•
Quinine Sulphate			•
Rhodamine B	•		
Rhodamine WT	•		
Roemex RX-5255	•		
Roemex RX-9022	•		
Roemex RX-9025		•	
Roemex RX-9025A		•	
Roemex RX-9026E			•
Roemex RX-9026EC			•
Roemex RX-9034A	•		
Schlumberger Tracer Dyes	•		
Sulphorhodamine B	•		
Sulphorhodamine		•	