

# 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

|                          |   |
|--------------------------|---|
| <b>Product</b>           | ROV-based Long Range Fluorometer LEAKlog®LR |
| <b>Country of origin</b> | UK  |
| <b>Manufacturer</b>      | Aquatec Group Ltd.                          |

## Specifications

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

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| 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                           |                            | •                            |                              |