Configurations

CTG offers three basic deployment configurations for the Sub-sea Pipeline Leak Detection System which include:

- → ROV mounted 6000 metre rated
- → ROV mounted 600 metre rated
- → Diver held system

All systems are provided with:

- → Fluorometers (dependent on depth and application)
- → Interface Unit
- → Complete set of cables
- → Laptop PC with GUI
- → Transit Case
- → Complete user handbook set

If two targets are required to be detected during the same operation, two different fluorometers can be offered within the one system.

CTG standard pipeline leak detection systems

Specification

Systems for ROVs	Code
6000m rated systems	
UV AquaTracka Hydrocarbon based system	2286-007
AquaTracka III Fluorescein based dye	2286-008
AquaTracka III Rhodamine based dye	2286-016
600m rated systems	
UviLux Hydrocarbon based system	2286-009
UniLux Fluorescein based system	2286-010
UniLux Rhodamine based system	2286-017
Diver held systems	
UviLux Hydrocarbon based system	2286-011

Options: An additional fluorometer can be provided with all systems for ROVs.

UniLux Fluorescein based system

UniLux Rhodamine based system

Examples of products detected include:

RX9022 (Roemex), Pelagic 100 & Pelagic 50/50, Agualink, Red 1247, Red 1749 (Houghton), Fluorodye UC, Hydrosure Cleardye, Cleardye (Champion), Tranagua (Castrol), Morlina 5 (Shell), EP1186 (AGMA)

CTG's state of the art Optics Laboratory can test customer's dye products for suitability.

Contact us today to see how we can help you



Chelsea Technologies Group Ltd





industry standard CTG

AquaTracka

Applications

- → Detection of leaks in pipelines and subsea installations
- → In-situ crude & refined hydrocarbon detection / monitoring
- → Subsea control line leak detection
- → Pollution monitoring
- → Environmental and water quality monitoring
- → Leak detection using many Fluorescein and Rhodamine based products

Product Information







Tel: +44 (0)20 8481 9000

2286-012

2286-018





Features

- → Rapid mobilisation worldwide
- → Complete turnkey system with data visualisation software
- → High sensitivity and background rejection
- → Designed for ease of integration to ROV platforms
- → Wide range of products detected
- Systems operational to full ocean depth
- → Long term calibration stability
- → More than 30 years proven track record
- → Easy to use

Introduction

CTG's Subsea PipeLine Leak Detection Systems provide both offshore pipeline commissioners and project engineers a highly sensitive detection system which allows quick location of leaks within subsea structures.

The systems comprise of one or two CTG industry standard fluorometers depending on the type of leak. A Deck System including a laptop PC running graphical software, and a set of cables which allow either ease of integration to an ROV, or deployment with a diver held system are provided.

CTG's range of *in-situ* fluorometers detect fluorescence of either hydrocarbon directly, or standard products with added fluorophors with industry-leading sensitivity and selectivity and have been optimised for minimal interference from turbidity.

When dissolved compounds (that are of a fluorescent nature) absorb light they re-emit a fraction of this energy as fluorescence at longer wavelengths. Fluorescence intensity is directly proportional to concentration. The technique is widely recognised as one of the most sensitive detection methods available.

CTG's fluorometers emit light locally, directly in front of the sensor windows, and detect approximately a 1 cm³ volume of water. Within this volume a concentration as low as 1 part per trillion can be detected.

During pipeline leak detection operations, with knowledge of current flows within the area under investigation, the operator can soon detect the source of the leak directing the sensor to where the fluorescent signal is increasing. CTG Subsea Pipeline Leak Detection Systems are available for both ROV mounted and diver held operations. The ROV mounted systems are supplied with all necessary cabling and interfaces to allow easy fit to ROV platforms. Both 600 metre and 6000 metre rated systems are available for ROV deployment.

The smaller and lighter 600 metre rated sensors are also made available within the diver held systems which include 250 metres of cable and a deck user interface.

Leading suppliers of leak detection systems for over 30 years







i CTG Pipeline Leak Detection Hire systems

CTG Pipeline Leak Detection Systems

are available for both purchase and hire. Mobilisation of this equipment can usually be arranged at short notice. Training can be provided at site or at CTG's premises. Training materials can be provided on request.

