

**OceanTools FibreSENSE** is a highly innovative fibre optic leak detection system designed to operate in confined and inaccessible subsea locations including J-tubes and risers.



## Overview

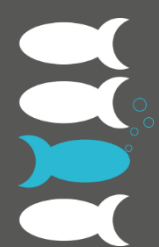
**FibreSENSE** employs the same cutting edge field proven optical detection technology and intuitive software that has made **OceanSENSE** the world leading subsea leak and cement dye detection system, with over 200 global mobilisations and a detection success rate close to 100%.

**FibreSENSE** incorporates fibre optic technology to reach previously inaccessible subsea locations, and can be deployed in conjunction with subsea dropper cameras, enabling vertical leak detection surveys and visual confirmation of inaccessible locations and targets. It is suitable for ROV or diver operated subsea borescopes and endoscopes.

The unit emits high intensity light at a wavelength specific to the tracer dye under detection. The agitated fluid emits light at a different wavelength that is then detected by the system's photo-detector electronics.

**FibreSENSE** is a remote detection system, meaning the control system can be placed topside while the excitation and emission light is transported up to 300m to and from the system via optical fibre. The excitation light is based on High Power LED technology. There are no lasers within the system, making it eye-safe.

See animations and videos of **OceanSENSE** online at [www.youtube.com/user/OceanToolsLtd](http://www.youtube.com/user/OceanToolsLtd)

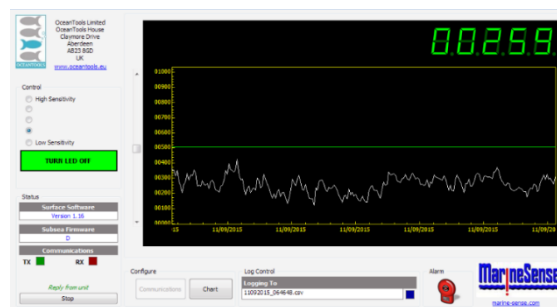


# OceanTools FibreSENSE

## Subsea fibre optic leak detection system

### Key Features

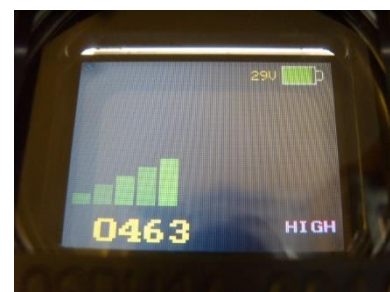
- Suitable for confined and inaccessible locations
- Deployable up to 300m from source
- Repeatable results
- Results visible on internal display and via software
- Field proven technology



External display software

The **FibreSENSE** system is designed to work with a wide range of dyes and substances including:

- **OceanTools C-Dye**
- Rhodamine RX9022 and B275
- Fluoresceins
- Pelagic 100 and 100 Pink
- Champion Cleardye and Fluorodye



Internal micro display

FibreSENSE Subsea Head	
Typical detection range	200mm
Deployment distance	300m
Head diameter	10mm
Head length	50mm

FibreSENSE Topside Control System	
Display	Internal micro display
Data communications	RS232 / USB to laptop
Power requirement	10W
Input voltage range	110–240VAC
Dimensions	420 x 340 x 220mm
Weight in air	5kg

### Related Products

- **OceanSENSE** ROV-mounted or diver-held leak and dye detection
- **C-Dye** subsea leak tracing dye

Product datasheets, GA drawings, case studies and other supporting documents are available to download from [data.oceantools.co.uk](http://data.oceantools.co.uk)  
All specifications are subject to change without notice. E&OE.

Version 3 (03.04.2017)

