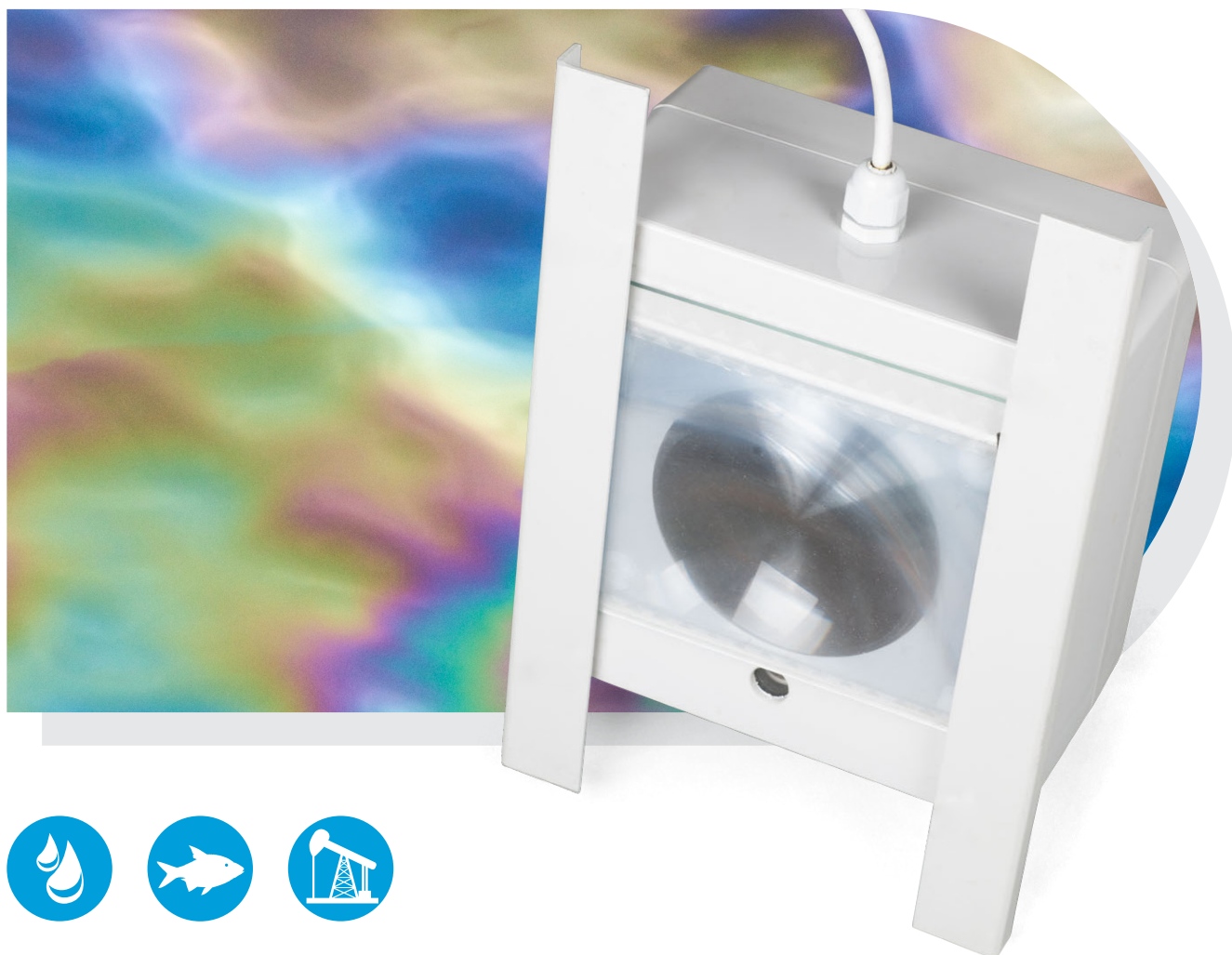


CRAB

Oil slicks optical detector



Method

Remote optical sensing of water surface with vertical laser beam

Principle of operation

Is based on the difference in light reflection from water and oil film surface

Applications

- ✓ Monitoring of water surfaces (sea, harbors, lakes, rivers)
- ✓ Oil leakage detection
- ✓ Monitoring of process and waste waters
- ✓ Stationary monitoring and mobile surveys

Features and benefits

- ✓ Continuous remote optical sensing, no sampling
- ✓ High sensitivity: detection of oil slicks with thickness down to 0.5 micron
- ✓ No interference from scattered radiation
- ✓ Low interference from ripples and waves (beam/surface angle up to $\pm 20^\circ$)
- ✓ Built-in data acquisition and processing
- ✓ Waterproof housing for outdoor installation
- ✓ Ex-proof option is available
- ✓ Mounting at stationary points, buoys, motor boats
- ✓ Long-term operation without maintenance

Specifications

Detecting object	Oil slick on water surface	
Min detectable oil film thickness	0.5 µm	
Mode of measurement	Continuous	
Min response time	0.1 s	
Signal status outputs	"No", "Yes" ("Alarm")	
Communication ports	RS-485	
	Current loop 4–20 mA	
	Relay	
Twisted pair length	up to 1500 m	
Power supply	12–15 V, 0.1 A	
Power consumption	up to 3 W	
Ambient conditions	Temperature: –10 to +50°C	
	Humidity: up to 100% (rain)	
Distance to the water surface	0.5–10 m	5–20 m
Dimensions	160×160×90 mm	300×300×200 mm
Weight	1 kg	2 kg

Equipment and options

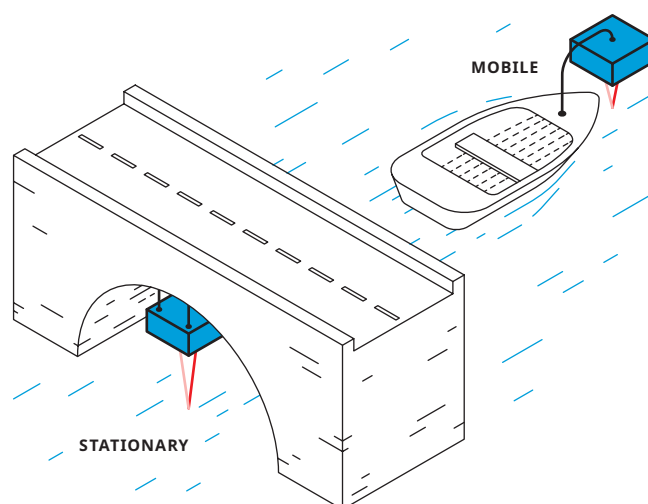
- ✓ CRAB optical detector
- ✓ Power supply unit for AC 110–240 V power mains (optional)

Warranty

CRAB optical detectors are covered by a 12-month warranty.

Service

Our engineers develop a scheme and design for the detectors installation upon customer's request and provide consultations and training.



LUMEX INSTRUMENTS CANADA

0890278 B. C. Ltd.
Unit 207, 31510 Gill Ave.,
Silver Creek Industrial Park,
Mission, B. C., V4S0A1, Canada
+1 604 820 8085
+1 866 233 6057 (24/7)
+1 604 820 4486
sales@lumexinstruments.com
www.lumexinstruments.com

LUMEX ANALYTICS GMBH

Naher Str., 8,
24558 Wakendorf II, Germany
+49 4535 297 756
+49 4535 297 783
info@lumexanalytics.de
www.lumexanalytics.de

LUMEX-MARKETING LLC

Ul. Obruchevykh 1, lit. b,
St. Petersburg, 195220, Russia
+7 812 718 5390
+7 812 718 5391
+7 812 718 6865
sales@lumex.ru
BOX 1234, St. Petersburg,
190000, Russia
www.lumex.ru

BEIJING LUMEX ANALYTICAL EQUIPMENT CO. LTD.

Level 19, Tower E2,
Oriental Plaza, 1 East Chang
An Avenue, Dong Cheng
District, Beijing 100738, China
+86 10 6412 9525
+86 10 6242 3844
lumexcn@lumex.com.cn
www.lumexcn.com