



This ROW model offers a perfect balance between economic costs and rugged design to be installed in even the toughest environments.

Whether at an oil terminal or in the open seas on a buoy, the ROW can handle the elements and connect seamlessly to your local telemetry.

Laser Diagnostic Instruments (LDI) specializes in photonics and software algorithm creating advance fluorescence-based instruments. Located in Estonia (E.U.), LDI is a R&D company and a Manufacturer. All our products are designed and produced in-house. We hold nine core technology patents and continue to innovate our products; as such, you can count on our support for years to come.



ROW Aluminum ROW Stainless Steel

MODELS

SENSITIVITY

RANGE

OPERATION TEMPERATURE

POX70[2.8x2.8]
83x80[3.3x3.1]

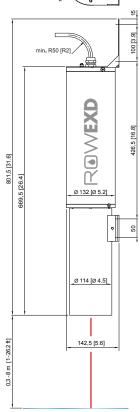
Optical non-contact and autonomous sensor for real-time detection of oil contamination – UV fluorescence method.

TECHNICAL SPECIFICATIONS

MODELS	O-2311A (Aluminum), O-2311S (Stainless Steel), O-2301B (ATEX EXD)	
SENSITIVITY	> 1 µm (micrometer) oil film	
RANGE	up to 10 m above surface (water or ground); ATEX EXD only 8 m	
OPERATION TEMPERATURE	-30°C to +60°C [-22°F to 140°F]	
ENCLOSURES	IP68, pressurised (Ar) hermetically sealed, weather proof <u>Aluminum</u> - Anodized, powder painted <u>Stainless Steel</u> - 316L <u>ATEX EXD</u> - 316L ATEX & IECEx flameproof enclosure, Zone 1 II 2 G Ex d IIB, Class 1, Division 1 Groups CD from Bartec	
DIMENSIONS WEIGHT	Aluminum - 659 x 83 x 80 mm [25.9 x 3.3 x 3.1 in] 1.7 kg [3.7 lbs] Stainless Steel - 686 x 139 x 139 mm [27 x 5.5 x 5.5 in] 6.9 kg [15.2 lbs] ATEX EXD - 669.5 x 142.5 x 132 mm [26.4 x 5.6 x 5.2 in] 12 kg [26.5 lbs]	
POWER OPTIONS	12 VDC (10V - 30V) as standard other options: 110/220 VAC 60/50 Hz AC/DC adapter, solar/battery options available	
POWER USAGE	< 2 Watt (DC)	
LIGHT SOURCE	pulsed UV LED	
LED LIFETIME	5 years typical, thereafter, LED replacement	
OUTPUTS	relay contacts, RS-485, 4-20 mA (as standard)	
TELEMETRY OPTIONS	RS-232 Ethernet/LAN Audio alarm Wireless Radio Link Wi-Fi GSM Custom Solutions	optional adapters available – contact Sales Engineer for additional information
USER INTERFACE	ROW Configurator for setup & adjustment ROW Manager for network visualization	
CERTIFICATIONS	C€: EN 61000-6-2, 61000-6-3 EN 61326-1, 61000-4-2, 61000-4-5, 61000-4-6, 61000-4-8, EN 61010-1 US EPA: (EPA/530/UST-90/009) IP68: EN 60529 ☑ DNV-2003-OSI-ATEX-0436U: Specific to ROW ATEX EXD EN/IEC: 60079-0, 60079-1 Only Enclosure Certified*	

ROW ATEX EXD





WARRANTY

2 year factory warranty as standard, supported worldwide