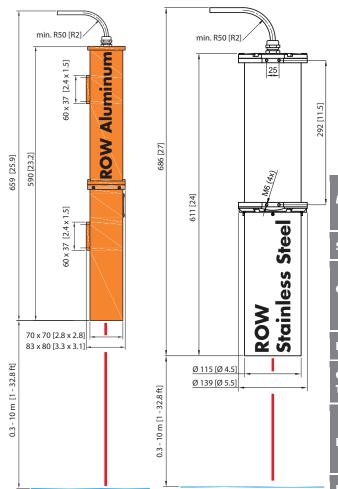


Laser Diagnostic Instruments (LDI) specialises in photonics and software algorithm creating advance fluorescence-based instruments. Located in Estonia (E.U.), LDI is a R&D company and a Manufacturer. All our products are designed and produced in-house. We hold nine core technology patents and continue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



nensions unless otherwise stated: mm [inches] Dimensions unless otherwise stated: mm [inches]

Ø 132 [Ø 5.2]

Ø 114 [Ø 4.5]

151.5 [6.0]

min. R50 [R2]

801.5 [31.6]

577.5 [26.7]



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

TECHNICAL SPECIFICATIONS

of Edition 10		
MODELS	O-2311A (Aluminum) O-2311S (Stainless Steel) or O-4501S (Light Fraction) version O-2301E (ATEX EXD) or O-4501E (Light Fraction) version	
SENSITIVITY	> 1 µm (micron) oil film	
OIL DETECTION*	O-23##X (Standard series) – Medium (diesel, lubricants etc) & heavy (crude, bunker fuels etc) oils O-45##X (Light Fraction) – Light (kerosene, jet fuel etc), including medium, & heavy oils	
RANGE	up to 10 m [33 ft] from surface depending on model	
OPERATION TEMPERATURE	-30°C to +60°C [-22°F to 140°F]	
ENCLOSURES	IP68, hermetically sealed, weather proof Aluminum – Anodised, powder paint, purged (Ar) Stainless Steel – Electropolished stainless steel 316L, purged (Ar) ATEX EXD – Stainless steel 316, flameproof enclosure for Zone 1	
DEVICE DIMENSIONS (L x W x H)	Aluminum – 590 x 83 x 80 mm [23.2 x 3.3 x 3.1 in] Stainless Steel – 611 x 139 x 139 mm [24 x 5.5 x 5.5 in] ATEX EXD – 677.5 x 132 x 132 mm [26.7 x 5.2 x 5.2 in]	
WEIGHT	Aluminum – 1.8 kg [3.97 lbs] Stainless Steel – 9.0 kg [19.8 lbs] ATEX EXD – 12.2 kg [26.9 lbs]	
POWER OPTIONS (Input)	O-23##X (Standard series) : 12 – 24 VDC (10V - 30V) O-45##X (Light Fraction) : 12 VDC <u>only</u> Optional: AC/DC adapter, 24 to 12 VDC adapter, solar/battery	

OPTIONS (Input)	0
POWER USAGE	<

LIGHT SOURCE

LED LIFETIME

2 Watt (DC)

Pulsed UV LED

5 years typical, thereafter, LED replacement

OUTPUTS Relay contacts, RS-485, 4-20 mA (as standard)

TELEMETRY	RS-232, Ethernet/LAN Audio alarm
OPTIONS	Wi-Fi
	Wireless Radio or GSA

Custom Solutions: Optional adapters available, contact Sales Engineer for additional information

USER **INTERFACE**

WARRANTY

ROW Configurator software for setup & adjustment ROW Manager software for network visualization

CERTIFICATIONS

C € EN 61000-6-2, 61000-6-3, 61326-1, 61000-4-2, 61000-4-5, 61000-4-6, 61000-4-8, 61010-1 **US EPA:** EPA/530/UST-90/009

IP68: EN 60529



ROW ATEX EXD: EN/IEC: 60079-0, 60079-1 ATEX (Zone 1) II 2 G [DNV Presafe 20 ATEX 61463X]

IECEx Ex d IIC T6 Gb [IECEx PRE 20.0044X]



2-years factory warranty as standard, supported worldwide * Different oils from each country have different properties. Check with LDI or send samples for testing.