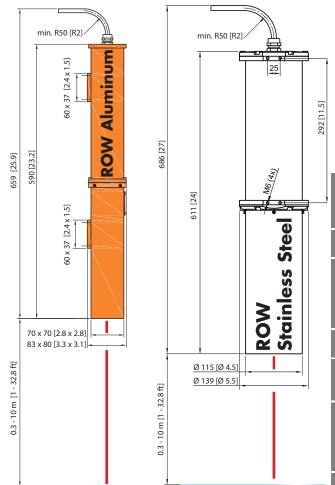


Laser Diagnostic Instruments (LDI) specialises in photonics and software algorithm creating advance fluorescence-based instruments. Located in Estonia (E.U.), LDI is a R&D company and a Manufacturer. All our products are designed and produced in-house. We hold nine core technology patents and continue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



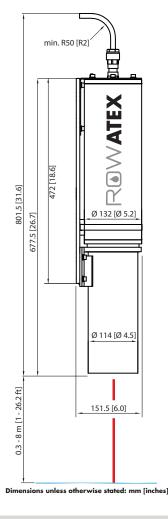
Dimensions unless otherwise stated: mm [inches] Dimensions unless otherwise stated: mm [inches]



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

TECHNICAL SPECIFICATIONS

MODELS		O-4501S (Light Fraction) version 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 × W × H)	Aluminum $-590 \times 83 \times 80$ mm [23.2 × 3.3 × 3.1 in] Stainless Steel $-611 \times 139 \times 139$ mm [24 × 5.5 × 5.5 in] ATEX EXD $-677.5 \times 132 \times 132$ mm [26.7 × 5.2 × 5.2 in]	
	Aluminum – 1.8 kg [3.97 lbs] Stainless Steel – 9.0 kg [19.8 lbs] ATEX EXD – 12.2 kg [26.9 lbs]	
WEIGHT	Stainless Steel – 9.0 kg [19.	8 lbs]
WEIGHT POWER OPTIONS (Input)	Stainless Steel – 9.0 kg [19. ATEX EXD – 12.2 kg [26.9 l O-23##X (Standard series): O-45##X (Light Fraction): 12	8 lbs] bs] 12 – 24 VDC (10V - 30V)
POWER OPTIONS	Stainless Steel – 9.0 kg [19. ATEX EXD – 12.2 kg [26.9 l O-23##X (Standard series): O-45##X (Light Fraction): 12	8 lbs] bs] 12 – 24 VDC (10V - 30V) 2 VDC <u>only</u>
POWER OPTIONS (Input)	Stainless Steel – 9.0 kg [19. ATEX EXD – 12.2 kg [26.9 l O-23##X (Standard series): O-45##X (Light Fraction): 12 Optional: AC/DC adapter, 2	8 lbs] bs] 12 – 24 VDC (10V - 30V) 2 VDC <u>only</u>
POWER OPTIONS (Input) POWER USAGE	Stainless Steel – 9.0 kg [19. ATEX EXD – 12.2 kg [26.9 l O-23##X (Standard series): O-45##X (Light Fraction): 12 Optional: AC/DC adapter, 2 < 2 Watt (DC)	8 lbs] bs] 12 – 24 VDC (10V - 30V) 2 VDC <u>only</u> 24 to 12 VDC adapter, solar/battery
POWER OPTIONS (Input) POWER USAGE LIGHT SOURCE	Stainless Steel – 9.0 kg [19. ATEX EXD – 12.2 kg [26.9 l O-23##X (Standard series): O-45##X (Light Fraction): 12 Optional: AC/DC adapter, 2 < 2 Watt (DC) Pulsed UV LED	8 lbs] bs] 12 - 24 VDC (10V - 30V) 2 VDC <u>only</u> 24 to 12 VDC adapter, solar/battery ED replacement



	ROW Manager software for network visualization
5	 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

ROW Configurator software for setup & adjustment

TELEMETRY

OPTIONS

INTERFACE

CERTIFICATIONS

WARRANTY

USER

Audio alarm

Wireless Radio or GSM

Wi-Fi

adapters available, contact Sales

Engineer for additional

information

^{*} Different oils from each country have different properties. Check with LDI or send samples for testing.