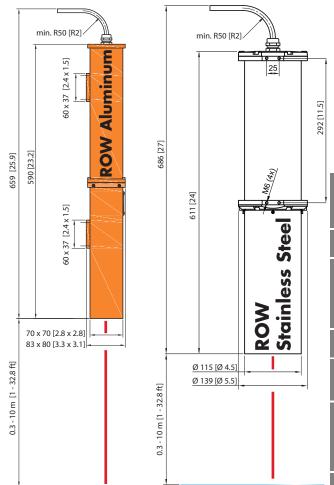


Laser Diagnostic Instruments (LDI) specialises in photonics and software algorithm creating advance fluorescence-based instruments. Located in Estonia (E.U.), LDI is a R&D company and a Manufacturer. All our products are designed and produced in-house. We hold nine core technology patents and continue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



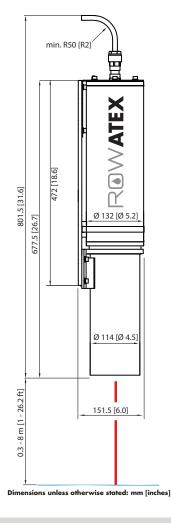
nensions unless otherwise stated: mm [inches] Dimensions unless otherwise stated: mm [inches]



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

## TECHNICAL SPECIFICATIONS

		<b>5115</b>
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 <b>Aluminum</b> – Anodised, powder paint, purged (Ar) <b>Stainless Steel</b> – Electropolished stainless steel 316L, purged (Ar) <b>ATEX EXD</b> – Stainless steel 316, flameproof enclosure for Zone 1	
DEVICE DIMENSIONS (L x W x H)	Aluminum $-590 \times 83 \times 80 \text{ mm} [23.2 \times 3.3 \times 3.1 \text{ in}]$ Stainless Steel $-611 \times 139 \times 139 \text{ mm} [24 \times 5.5 \times 5.5 \text{ in}]$ ATEX EXD $-677.5 \times 132 \times 132 \text{ mm} [26.7 \times 5.2 \times 5.2 \text{ in}]$	
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 <b>(Standard series)</b> : 12 – 24 VDC (10V - 30V) O-45##X <b>(Light Fraction)</b> : 12 VDC <u>only</u> Optional: AC/DC adapter, 24 to 12 VDC adapter, solar/battery	
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)	
	DC 000 Fd . // A	
TELEMETRY OPTIONS	RS-232, Ethernet/LAN Audio alarm Wi-Fi Wireless Radio or GSM	Custom Solutions: Optional adapters available, contact Sales Engineer for additional information
	Audio alarm Wi-Fi	adapters available, contact Sales Engineer for additional information  for setup & adjustment



2-years factory warranty as standard, supported worldwide

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

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

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

**US EPA:** EPA/530/UST-90/009

**IP68:** EN 60529

CERTIFICATIONS

WARRANTY