OSIL

SUITABLE FOR ATMOSPHERES CONTAINING:
acetaldehyde, ethane, ethyl chloride, ammonia, benzines, gasoline, n-butyl alcohol, diesel fuels, jet engine fules, acetic acid anhydride, n-hexane, methane, methanol, naphthalene, phenol, propane, toluene

LDI ROW

ROWEXD
OIL DETECTOR FOR HAZARDOUS AREAS

ROW EXD oil spill detector is designed to detect oil contamination in the hazardous areas where ignitable concentrations of flammable gases, vapors or mists often exist.

› FLAMEPROOF (EXD) ENCLOSURE
ROW EXD Oil Detector is encased in flameproof (Exd) 3rd party certified enclosure, made of 316L stainless steel, which is acid and corrosion resistant making it ideal for the toughest enviornments.

DETECTION RANGE BEST IN CLASS

REAL TIME ALERTS OVER SMS & EMAIL

FEWER FALSE ALARMS

ROW EXD FOR ZONE 1 AREAS

› TOP IP RATED EXD DEVICE
IP68 certified non-contact EXD oil detector, using UV fluorescence method — highest rated on the market.

› RANGE BEST IN CLASS
Outstanding detection range of 8m — twice the distance in comparison to similar products on the market.

› INDUSTRY LEADING SESITIVITY — 1 µm
Advanced software algorithms are calibrated to detect oil down to single-micron layers and minimize false alarms.

› COMPATIBLE WITH EXISTING DEVICES
ROW EXD Oil Detector can be installed within a network of LDI's ROW Stainless Steel and ROW Aluminium devices, making expansion of existing ROW networks exceptionally convenient.

APPLICATIONS

OIL & PETROCHEMICAL
Oil Extraction
Oil Refining and Production
Storage & Transportation
Pipelines

OFFSHORE
Platforms & Rigs
Marine Terminals
Loading & Transfer Buoys

WATER QUALITY
Drinking Water Treatment
Waste Water Treatment
Desalination
Intake Protection

TRANSPORTATION
Ports & Harbours
Marinas & Fuel Docks
Railway
Shipyards
Airports
Military

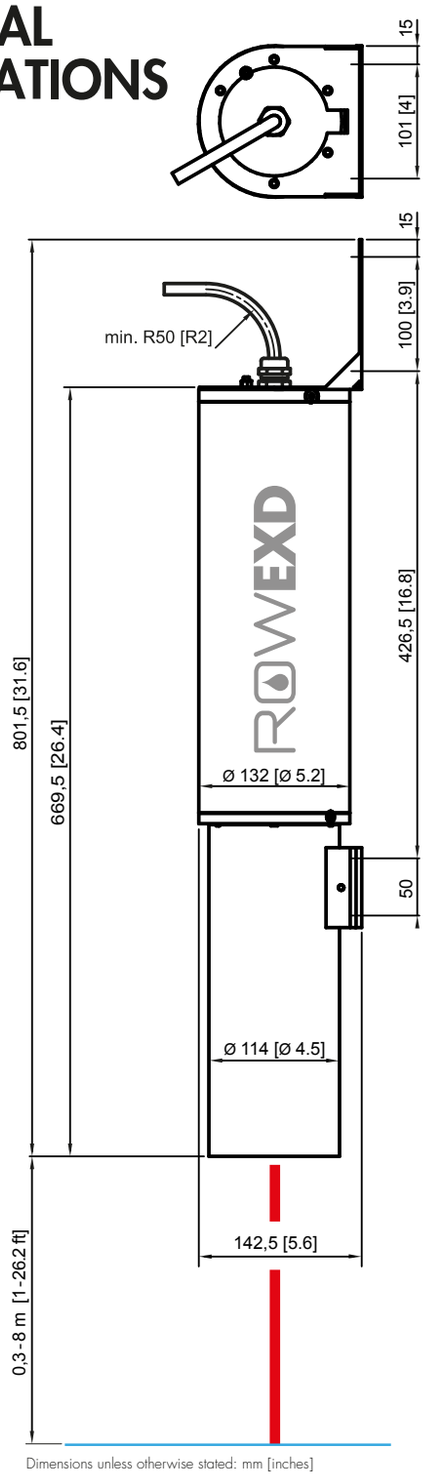
ENVIRONMENTAL
Storm Water Management
Public Beaches
Sensitive Wildlife Habitat

AGRICULTURE
Farm Equipment & Fuel Storage
Aquaculture & Fish Farms

MANUFACTURING
Steel & Aluminium
Pulps & Paper
Food Oils

POWER GENERATON & DISTRIBUTON
Carbon Based Production
Renewables – Hydro Electric
Nuclear

TECHNICAL SPECIFICATIONS



Dimensions unless otherwise stated: mm [inches]

MODEL	O-2300 Exd Zone 1	
SENSITIVITY	> 1 micrometer oil film	
RANGE	up to 8 m above surface (water or ground)	
OPERATION TEMPERATURE	-25°C to +60°C [-13°F to 140°F]	
ENCLOSURE	ATEX & IECEx flameproof enclosure - Zone 1 II 2 G Ex d IIB Class 1, Division 1 Groups CD IP68, stainless steel 316L	
DIMENSIONS	669,5 x 142,5 x 132 mm [26.4 x 5.6 x 5.2 in]	
WEIGHT	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	
OUTPUT	relay contacts, RS-485, 4-20 mA (as standard)	
COMMUNICATION OPTIONS	RS-232 ethernet/LAN audio alarm wireless radio link Wi-Fi GSM custom solution	optional adapters available – contact Sales Engineer for additional information
USER INTERFACE	ROW Configurator for setup & adjustment ROW Manager for network visualization	
SYSTEM CERTIFICATIONS	CE: 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) pending	
ENCLOSURE CERTIFICATIONS	DNV-2003-OSL-ATEX-0436U: EN/IEC: 60079-0, 60079-1 IP68: EN 60529	
WARRANTY	2 year factory warranty as standard, supported worldwide	

ATEX CATEGORIZATION

› International (IEC, CENELEC)

Equipment group II Electrical equipment intended for use in places with an explosive gas atmosphere other than mines susceptible to firedamp.

Category 2 High degree of safety, safe even when a fault occurs.

Atmosphere G (Gas)

Group IIB Typical gas Ethylene.

› USA (NEC 505)

Class 1 Applicable in hazardous locations with possible presence of sufficient quantities of explosive/ignitable gases or vapors in the air, for example: petroleum refineries, gasoline storage and dispensing areas, aircraft hangars and fuel servicing areas.

Zone 1 A place in which an explosive atmosphere is prone to occur.

Group IIB Typical gas Ethylene.

› Canada (NEC 500)

Class 1 Applicable in hazardous locations with possible presence of sufficient quantities of explosive/ignitable gases or vapors in the air, for example: petroleum refineries, gasoline storage and dispensing areas, aircraft hangars and fuel servicing areas.

Division 1 Normally explosive and hazardus.

Group CD Substances Ethylene, Propane.