



Laser Diagnostic Instruments



SUITABLE FOR ATMOSPHERES CONTAINING:

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



ROW Ex d OIL DETECTOR FOR HAZARDOUS AREAS

ROW Ex d oil spill detector is designed to detect oil contamination in the hazardous areas where ignitable concentrations of flammable gases, vapors or mists often exist. These areas are typically designed as Zone 1 and require explosion-proof instruments.

› FLAMEPROOF (Ex d) ENCLOSURE

ROW Ex d Oil Detector is encased in a flameproof (explosion-proof) 3rd party certified enclosure by Bartec. Made from 316L stainless steel, which is acid and corrosion resistant, this ROW model is ideal to be installed in even the toughest environments.

› TOP IP RATED Ex d DEVICE

IP68 certified non-contact Ex d 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 SENSITIVITY — 1µm

Advanced software algorithms are calibrated to detect oil down to a single-micron layer and minimize false alarms.

› COMPATIBLE WITH EXISTING DEVICES

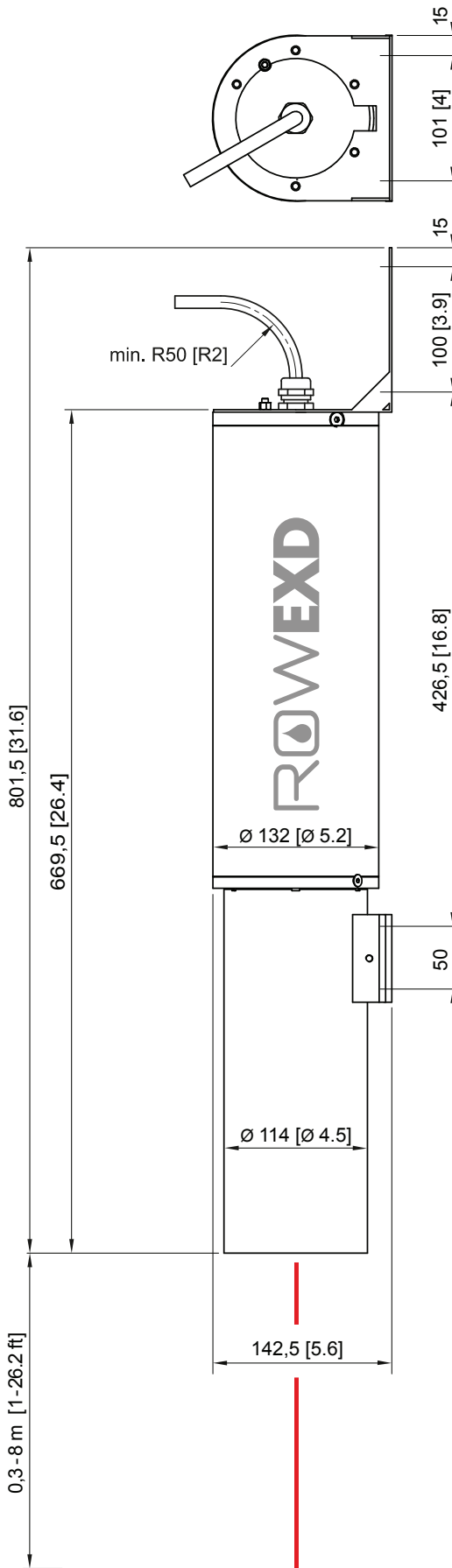
ROW Ex d Oil Detector can be installed within a network of LDI's ROW Stainless Steel and ROW Aluminium devices, making expansion of existing ROW networks exceptionally convenient.



Italy,
Oil Terminal



Norway,
Fuel Depot



Dimensions unless otherwise stated: mm [inches]

TECHNICAL SPECIFICATIONS

MODEL	O-2301B Ex d Zone 1	
SENSITIVITY	> 1 µm (micrometer) oil film	
RANGE	up to 8 m above surface (water or ground)	
OPERATION TEMPERATURE	-30°C to +60°C [-22°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, thereafter, LED replacement	
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)	
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	