

Series GEO-OSD2000




Oil Spill Detector



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

TECHNICAL SPECIFICATIONS

MODEL	RANGE from surface	ENCLOSURE IP68, hermetically sealed, weather proof	ATEX
GEO-OSD2010-AL	0.3 to 10m	Aluminum – Anodised, powder paint, purged (Ar)	No
GEO-OSD2010-SS	0.3 to 10m	Stainless Steel – Electropolished stainless steel 316L, purged (Ar)	
GEO-OSD2010-SS-LF	0.3 to 10m		
GEO-OSD2008-EX	0.3 to 8m	ATEX EXD – Stainless steel 316, flameproof enclosure for Zone 1	Ex d Zone 1
GEO-OSD2008-EX-LF	0.3 to 8m		

SENSITIVITY	> 1 micron oil film
OIL DETECTION *	Standard series – Medium (diesel, lubricants etc..) & heavy (crude, bunker fuels etc..) oils Light Fraction – Light (kerosene, jet fuel etc..), including medium, & heavy oils
OPERATION TEMPERATURE	-30°C to +60°C
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)
DATALOGGING	Direct connection to METEODATA / HYDRODATA datalogger
SYSTEM CERTIFICATIONS	 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/530/UST-90/009
ENCLOSURE CERTIFICATIONS	IP68: EN 60529 Only models GEO-OSD2008-EX and GEO-OSD-2008-EX-LF:  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]
WARRANTY	2 year factory warranty as standard, supported worldwide



METEODATA / HYDRODATA

Datalogger with Integrated Comms
(4G / 3G / GPRS, Line, Radio or Satellite)

MODEL	DIMENSIONS (mm)	WEIGHT (kg)
GEO-OSD2010-AL	590 x 83 x 80	1.8
GEO-OSD2010-SS	611 x 139 x 139	9.0
GEO-OSD2010-SS-LF		
GEO-OSD2008-EX	667.5 x 132 x 132	12.2
GEO-OSD2008-EX-LF		

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

