

Introducing The World's ONLY  
**DNV Clean Design Certified**  
5 PPM Bilge Alarm

# TD-107<sup>5.0</sup> OIL CONTENT MONITOR



- FLUORESCENCE detection technology is resistant to interferences from turbid or dirty water that impact light scatter devices.
- Substances such as sediment and rust do not materially interfere with the detection of oil in water.
- FLUORESCENCE detection ensures that the Oily Water Separator is not 'fooled' into staying in recirculation mode by false positives caused by silt and other solids
- Features self-compensating electronics that corrects for fouling of the sample cell, along with a Cell Condition Monitor to alert crew when cleaning is required Simple and easy maintenance
- Includes standard alarm relays and 4-20mA output for remote monitoring, along with user-friendly USB data port for review of recorded OCM data




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# TD 107 OCM SPECIFICATIONS

Operational Principle	UV Fluorescence
Detection Range	0-100ppm, higher ranges available
Response Time	2.5 seconds
Power Requirements	20-250 VAC or DC, 50/60Hz, 2 A
Weight	12lbs
Control Input	Bilge Separator, Status-Continuity or 3-28 VDC, 100UA
	Sample Flow Status-Continuity or 3-28 VDC, 100UA
Control Output	High Alarm: SPDT Relay Contact, Rated 240 VAC, 6A, 50/60 Hz or 28 VDC
	Early Warning Alarm: SPDT Relay Contact, Rated 240 VAC, 6A, 50/60 Hz or 28 VDC
	Zero Alarm: SPDT Relay Contact, Rated 240 VAC, 6A, 50/60 Hz or 28 VDC
	System Alarm: SPDT Relay Contact, Rated 240 VAC, 6A, 50/60 Hz or 28 VDC
	Cell Condition Alarm: SPDT Relay Contact, Rated 240 VAC, 6A, 50/60 Hz or 28 VDC
Data Output	All data and events- 18 months, USB Data Key
Outputs	4-20mA Powered, 500ohm. Max Impedance
Mounting & Plumbing Hardware	316 SS
Pressurized Sample Return	Yes, or Unpressurized to Drain
Typical Flow Rates	100ml - 4L per minute
Min/Max Sample Pressure	5psig/100psig, 0.35barg/6.9barg
Max Sample Temperature	140 F or 60 C
Ambient Operating Temperature	32 F-120 F, 0 C-49 C
Calibration	Factory 2 year standard
Electronics Cabinet	Stainless Steel
Certifications	Det Norske Veritas' Type Approval Programme 771.61 5 ppm Bilge Alarms



 <b>DET NORSKE VERITAS</b> TYPE APPROVAL CERTIFICATE	
CERTIFICATE NO. P-14592 This is to certify that the <b>5 ppm Bilge Alarm</b> with type designation(s) <b>TD-107 5.0</b> issued to <b>Turner Designs Hydrocarbon Instruments, Inc.</b> <b>FRESNO CA, United States</b> is found to comply with <b>Det Norske Veritas' Type Approval Programme 771.61 5 ppm Bilge Alarms</b> Application <b>This Type Approval covers system design and prototype testing of 5 ppm Bilge Alarms</b> as required by Type Approval Programme 771.61	
This Certificate is valid until 2018-06-30. Issued at Havik on 2014-04-22 DNV local station: Long Beach Approval Engineer: Maya Rajinder Kaur	For Det Norske Veritas AS (Digitally signed by Dag Sale-Nilsen, CN=Dag Sale-Nilsen, O=Det Norske Veritas AS, OU=Det Norske Veritas, email=Dag.Sale-Nilsen@dnv.no) Dag Sale-Nilsen Head of Section
<small>           This Certificate is subject to terms and conditions covered. Any significant change in design or construction may render this Certificate invalid.            The holder shall remain liable for the Type Approval certificate and not the approval of design or construction.            If any person suffers loss or damage which is proved to have been caused by any negligent act or omission of Det Norske Veritas, then Det Norske Veritas shall only compensate to such extent that its covered policy limit or average, however, the compensation shall not exceed the amount paid to Det Norske Veritas by the insurer in question, provided that the maximum compensation shall never exceed USD 2 million. In this provision 'Det Norske Veritas' shall mean the Foundation Det Norske Veritas as well as its subsidiaries, directors, officers, employees, agents and any other acting on behalf of Det Norske Veritas.            Det Norske Veritas AS, Veritasveien 1, NO-1322 Høvik, Norway. Tel.: +47 67 57 59 00, Org.No. NO 345 748 501 MVA.            Form No.: TA 1411a Issue: 2015-10         </small>	



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