

G26

Ambient Oil Mist Detector



Oil mist detection
in open spaces

The G26 Ambient Oil Mist Detector is a simple and extremely reliable opacity monitor. The system uses a configurable number of detectors per monitor to detect oil leakages and hereby prevent fires, thus increasing safety of people, the environment, and assets efficiently and cost-effectively.



Protects people, environment, and assets

Key features

- Detects all types of oil mist
- Simple installation, minimal footprint
- Fast and reliable detection
- Configurable number of detectors per monitor
- Displays opacity (0-100%)
- Designed for marine applications
- Low cost of ownership – no consumable parts
- Fully scalable solution
- ATEX/IECEx version available
- 36-month warranty
- Global service and support

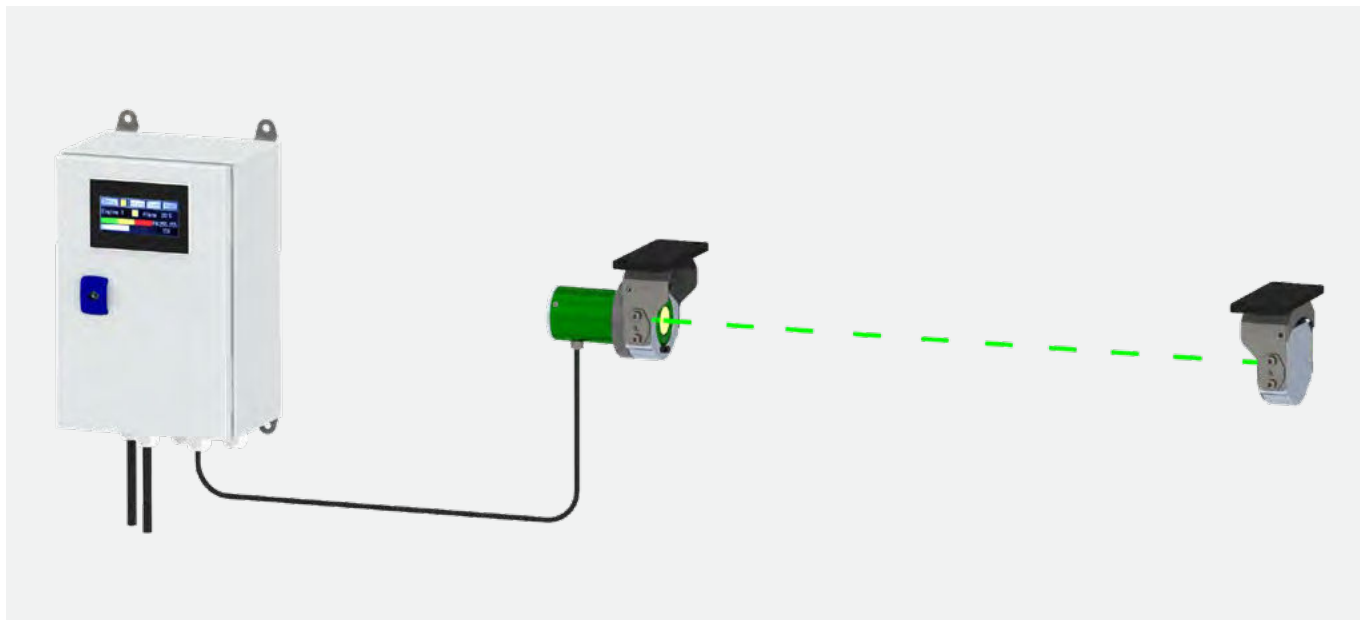
The G26 Ambient Oil Mist Detector is a reliable opacity meter designed to detect all types of oil mist from hydraulic oils, fuel oils, and other types. Oil mist is formed by oil droplets suspended in the air. Oil mists ignite at low temperatures and can cause severe damage such as engine room fires. Acting as a safety alarm, the detector helps crew prevent fires and thereby protect lives, the environment, and assets.

The system measures the full range of opacity (0-100%) and is designed for the extreme working environments on board vessels. Its robust design and solid green laser technology with double-pass

measurement method ensures simple installation, solid reliability, and high accuracy and precision by detecting undiluted oil mist clouds in the atmosphere.

Fully scalable installation

The G26 Ambient Oil Mist Detector offers several decisive advantages compared to traditional solutions. With a scanning range of up to 15 meters, each detector covers a larger area. The system can be configured with several detectors, allowing simultaneous monitoring in different locations. As a result, the G26 Ambient Oil Mist Detector significantly increases safety on board vessels.



Low-cost detector

With line-of-sight measurement, that does not require any sampling devices, the G26 Ambient Oil Mist Detector is both simple and reliable. This feature minimizes system failures from mechanical or contamination issues. The detector is designed with no moving parts, making it almost maintenance-free, requiring only occasional lens cleaning and in-situ calibration.

An integrated HMI module offers clear visualization and operation, providing user-friendly immediate overview of the atmospheric conditions in the locations under detection. This means the crew can take immediate action with minor oil leakages and prevent serious incidents.

G26 Spot for narrow spaces

Designed for detecting oil mist in open but narrow spaces, the G26 Spot is a pre-aligned version of the ambient detector. The G26 Spot is a practical choice where space is limited as it is installed inside a pre-aligned box, protecting the laser beam from accidental interruption preventing false alarms.

ATEX/IECEx certified version

For operation in hazardous areas, the G26 Ambient Oil Mist Detector is available as an ATEX/IECEx certified version; the G26 Ex. The G26 Ex is designed to prevent fires and explosions in oil rigs, platforms, FPSOs, or other similar marine

installations. It responds quickly to any minor or major oil mist formation, helping to prevent injuries, environmental damage, and for protecting assets while minimizing production downtime.

Service, support, and warranty

Simple installation and small footprint make the detector easy to integrate on board. Maintenance is minimal, requiring only occasional lens cleaning with a dry cloth, and calibration can easily be carried out by the crew. If needed, Green Instruments provides full service and support to ensure optimal operation throughout the entire product lifetime. A 36-month warranty is included.



Certificates



Specifications - G26

CONTROL AND MONITORING UNIT (SUPPORTS 2x TRANSCEIVER)

Power supply

Standard	20 – 30 VDC - 2 A
Optional	100 – 240 VAC - 50/60 Hz - 1.4 A
Ambient temperature	0 – 55 °C

Communication

Analog output	2 x 4 - 20 mA max 500 Ω - active and linearized
Digital output	4 x alarm relays
Bus	Modbus TCP/IP
Alarm level	Alarm level is configurable Warning level is automatic set at 50 % of the alarm level
Alarm delay	Default 0 s / programmable (0 – 1800 s)

Material/enclosure

Enclosure	IP 65 steel box
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Dimensions/weight:

Dimensions	300 x 200 x 150 mm
Weight	5.5 kg

TRANSCEIVER INCL. REFLECTOR AND MOUNTING BRACKETS

Measuring range	0 – 100 % opacity
Accuracy	Better than 2 % of full scale
Scanning distance	1 – 15 m
Measuring principle	Transmission dual pass
Ambient temperature	0 – 55 °C
Enclosure	IP 66 steel box

Dimensions/weight:

Transceiver	170 x 116 x 140 mm / 1.8 kg (incl. mounting brackets)
Reflector	52 x 116 x 140 mm / 1.3 kg (incl. mounting brackets)

ACCESSORIES AND OPTIONAL

Optional

Purge air module for monitoring at ventilation ducts
Audit filter; Remote digital display; Audio alarm buzzer; Ex version
Visualization, recorder, and data logging

Specifications subject to changes without notice

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