

Oil Film Detector Apolarm™ M LMD-600

The tiny sentinel

— instantly detecting even
the slightest oil film.

- ✓ Entry model optimized for short-range applications
(Detects 0.3m – 2m)
- ✓ Built for harsh temperatures
(Enhanced heat resistance: -10°C to +60°C)
- ✓ Global-voltage compatible (100 – 240 V)
- ✓ Stable & precise detection—
Resistant to sunlight, waves, and water flow
- ✓ Effortless installation anywhere –
Compact and ultra-lightweight design
- ✓ Minimize running costs
(No parts replacement required for 10 years)



AsahiKASEI
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Nobeoka Office

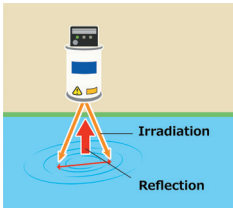
LMD-600

Specifications

LMD-600 System

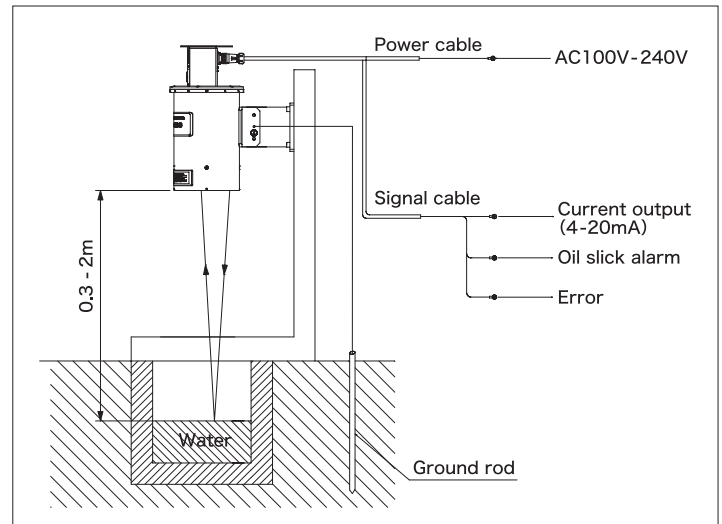
Model	LMD-600
Subject of detection	Oil films floating on water surface or floor (gasoline, kerosene, light oil, heavy oil, insulation oil, lubricating oil, etc.)
Detection method	Laser beam scanning and reflected light receiving
Light source	Semiconductor laser output 1 mW or less (Class 2)
Alarm setting and determination	Oil film level, oil film duration, alarm determination (alarm is generated when the condition exceeding the set level continues for the oil film continuing time or more.)
Output	1-point current output (4 to 20 mA according to the light receiving level) and 2-point contact output(oil film alarm, equipment failures, level abnormality)
Display	Three-color LED indicators (CPU STATUS, ALARM, and ERROR)
Power supply	100-240V AC $\pm 10\%$ single phase 50/60 Hz, 100 VA or less
Supplied cable	Power cable (1.25 mm sq., 3-wire, 5 m), signal cable (0.5 mm sq., 8-wire shielded, 5 m)
Installation conditions	Installation inclination ($\pm 1^\circ$ or less), tilt adjustment required depending on detection distance and measurement conditions, avoidance of direct sunlight, measures against freezing and rain required for the monitoring surface, detection distance: 0.3 to 2 m.
Surrounding environment	Temperature: -10 to +60°C
Structure	Sealed structure, applicable for outdoor use, equivalent to IP66
External dimensions	$\phi 185 \times 364(H)$ mm
Weight	Approx. 6.4 kg (including accessory cable of 1.4 kg)
Option	Shading hood, anti-fog hood, mounting stand

Detection principle

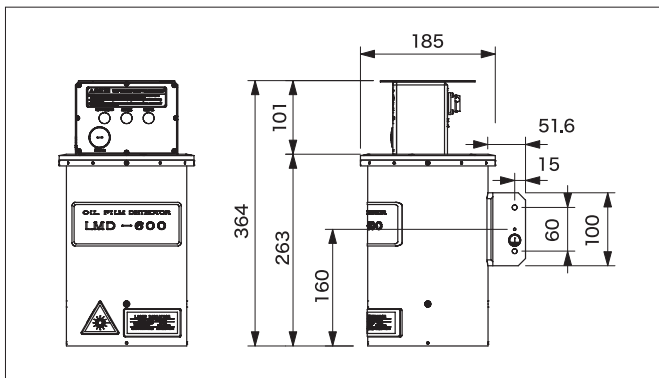


The detector irradiates the water surface with a laser beam and scans across it. By measuring the difference in reflected light intensity between water and oil, the system can detect even micron-level oil films

System configuration



Outline drawing



⚠ Safety Precautions Before use of this product, carefully read "Warnings and Cautions" in the Instruction Manual supplied with the product.

⚠ Precautions for Use To ensure proper and safe operation, be sure to read the "Instruction Manual" before using this product.

- The specifications or external appearance described in this brochure are subject to change without prior notification due to alteration of laws and regulations or improvements to this product.
- Actual colors may slightly vary from those of the photos due to printing.

ASAHI KASEI TECHNOSYSTEM CORPORATION

Head office : Hibiya Mitsui Tower,
1-1-2 Yurakucho, Chiyoda-ku, Tokyo 100-0006, Japan
Tel: +81-(0) 3-6699-3927 Fax: +81-(0) 3-6699-3922

Nobeoka Facility : 5-4960 Nakagawara-machi, Nobeoka, Miyazaki,
882-0031, Japan

Website : <http://www.asahi-kasei.co.jp/ats/en>

E-mail : ats@om.asahi-kasei.co.jp

