



Strips Multi-sensor +Drip Oil for LoRaWAN

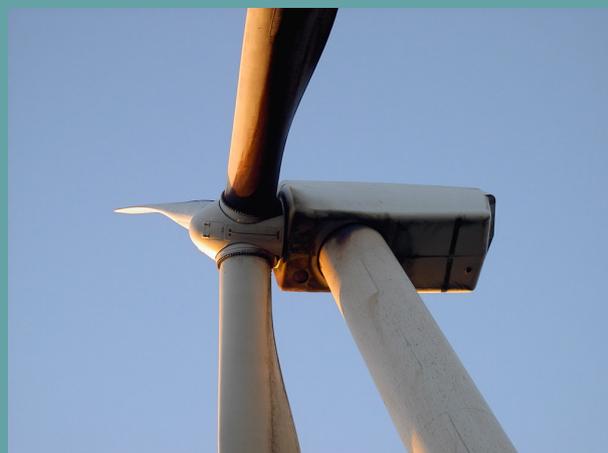
Meet the ultra-slim LoRaWAN oil leak sensor



Strips MS +Drip Oil is an innovative **ultra-thin (4mm/0.16in)** and wireless multi-sensor for LoRaWAN with **water & oil leak detection**, developed for smart IoT applications such as heavy machinery, transmission and hydraulics monitoring.

When MS +Drip Oil detects some kind of leakage it then differentiates if there is a water or oil leak, sending the appropriate alarm, thus providing early indications of potentially major machine breakdowns. Its slim and sturdy design makes it perfect for mounting concealed in small spaces or on pipes to catch the first drops of water or oil. With a **battery life of up to 10 years**, you can set it and forget it.

- Oil leak sensor
- Water leak sensor
- Temperature sensor (+/- 2 °C)
- Ultra-thin (4mm/0.16in) design
- Up to 10-year battery lifetime
- Up to 10 km (6 miles) range
- IP65
- Easy installation
- Patent pending



Wind turbine leaking oil. © Copyright [Neil Owen](#)

DESCRIPTION

STRIPS DRIP OIL LoRaWAN

Strips LoRaWAN Drip Oil is an ultra-thin (4 mm) wireless sensor designed for early detection and classification of liquid leaks in industrial environments. It is ideal for monitoring machinery, hydraulic systems, and technical installations where understanding the type of leakage is critical.

The sensor features a patent-pending dual sensing technology that detects leaks and distinguishes between water and other liquids.

An external capacitive sensor detects the presence of any liquid, while a foil-integrated capacitive sensor—combined with a liquid-absorbing layer—reacts specifically to non-water (viscous) liquids such as oil. This enables reliable differentiation between water-based and non-water leaks.

Its slim and robust design allows installation on flat surfaces such as floors, trays, or beneath equipment and piping—detecting leaks at an early stage, even from the first drops.

With a battery life of 10+ years – designed for long-term, maintenance-free operation, Strips Drip Oil is built for reliable performance in demanding environments.

Typical use cases

- Monitoring of hydraulic systems and machinery
- Detection of oil and other viscous liquid leaks
- Leak detection under pipes, tanks, and industrial equipment
- Machine rooms and technical installations
- Protection of critical infrastructure

Key advantages

- Patent-pending liquid classification – distinguishes between water and non-water liquids
- Dual sensing technology – detects any liquid and identifies its type
- Early warning – detects leaks from the first drops to prevent damage
- 10+ years battery life – designed for long-term, maintenance-free operation
- Discreet yet robust design – ultra-thin and easy to install on flat surfaces
- Reliable in industrial environments – built for demanding use cases

Installation

Strips Drip Oil can be easily mounted on flat surfaces and installed using Sensative +Clip, enabling flexible and secure placement in a wide range of environments.

Service & maintenance

The liquid-absorbing foil is designed to react to non-water liquids and should be replaced after exposure, as it becomes contaminated by oil or other substances.

IMAGE GALLERY



SPECIFICATION

Application

Application Water leak detection, Oil leak detection, Any liquid detection

Benefits

Benefits Blend-in design, No maintenance (10 years), Long-range (10 km), Simple installation & mounting, Low-lifecycle cost (multi-purpose multi-sensor)

In/Outdoor usage indoor & sheltered outdoor

Features

Sensor Capacitive liquid sensor, Temperature, Water leak, Open/Close

Firmware update over the air (FOTA) No

Connectivity data

Frequency EU868 - Europe 863-870 MHz or US915 - US 902 - 928 MHz or AU915 - Australia 915 - 928 MHz or AS923-1 - Asia 902 - 928 MHz or IN865 - India

Protocols / Connectivity LoRaWAN

LoRaWAN version V 1.0.4

LoRaWAN class Class A

Antenna Integrated

Sensor data

Temperature accuracy $\pm 1\text{ }^{\circ}\text{C}/ 1.8\text{ }^{\circ}\text{F @ 0-30 }^{\circ}\text{C}/32-86^{\circ}\text{F}$, $\pm 1\text{ }^{\circ}\text{C}/ 1.8\text{ }^{\circ}\text{F @ 0-30 }^{\circ}\text{C}/32-86^{\circ}\text{F}$

Sensor type Magnetic contact

Power supply

Powered by Battery, Built-in battery (LiMnO2), 1,4 Wh (480 mA @ 3V), Non rechargeable battery

Operating Conditions

Operating temperature (max) +60°C

Operating temperature (min) -20°C

IP Class 67

Mechanical data

Weight (g) 11

Width (mm) 15

Height (mm) 4

More information

Manual URL <https://public.yggio.net/docs/lorawan-sensors/strips-multi-sensor/#strips-ms-oil>

Battery calculator <https://sensative.com/sensors/strips-lora-sensors/sensative-strips-lora-battery-calculator/>

Payload decoder <https://sensative.com/sensors/strips-lora-sensors/sensative-strips-lora-ms-resource-center/>

PATENTED

Sensitive Strips are protected by one or more of the following patents:

Elongated wireless sensor assembly

Sweden: SE 537 509

Europe: 3053152

EP 3 670 811 B1

USA: 9,953,496

USA: 10,720,033

USA; 11,170,617

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