

## THE ESSENTIALS OF TTK DIESEL LEAK DETECTION SYSTEMS

TTK diesel oil leak detection system consists of two essential parts: addressable sense cables/ point sensor and digital leak monitoring panel.

**Diesel Sense Cable** - The addressable cable provides fast and selective detection of diesel leak upon contact, along the entire length, standard length sense cable provided with built-in plug-socket connector.



Addressable diesel oil sense cable: FG-OD



Addressable diesel oil point sensor: FG-ODP

**Diesel Point Sensor** - Fast response to diesel, re-usable and easy to install and remove. Suitable to be installed at low points or inside the storage tank containment tray (if any).

## DIESEL OIL LEAK RISKS

On many facilities, emergency generators are the last line of defense when there is a utility failure or a catastrophic event. Non-detected diesel oil leakage on generators (which are often located in areas without daily inspection) can be extremely detrimental with potentially severe consequences, especially in data centres, health care sites, airports, or critical mission facilities.

The TTK diesel oil leak detection solutions for generators are specially designed and developed to protect diesel generators and their supporting diesel system as storage tanks and diesel distribution pipes.

## ADVANTAGES OF SENSE CABLES & POINT SENSORS



### FAST RESPONSE

Examples of detection time:  
Diesel oil: 25-35 min (\*)  
Gasoline: 3-6 min (\*)  
\* depending on liquid composition, temperature and leak conditions



### SELECTIVE DETECTION

Response to diesel, insensitive to water, pressure or dust (rated IP68).



### ACCURATE LOCATION

Microprocessor embedded in each sense cable gives a unique address allowing accurate leak location on section length.



### RE-USABLE

The silicone jacket swells quickly by absorbing liquid hydrocarbon. This process is reversible enabling re-use after cleaning.

## TTK IN RESPONSE WITH THE LATEST INNOVATIVE TECHNOLOGIES

TTK, liquid leak detection manufacturer and leader of the market for 30 years, offers tailored solutions with innovative technologies. From forward-thinking design to prototype testing and improvement, innovative materials and patented products, TTK's dynamic R&D team undertakes on-going research to discover and deliver better solutions than existing conventional ones.

## THE BENEFITS OF TTK



**Digital Leak Monitoring Panel** – They are designed to collect and transmit information from the sense cables (or point sensors) to local panel and/or remote Building Management System via JBUS/MQTTBUS protocol.

TTK offers a range of monitoring panels to suit different installation scales and situations.



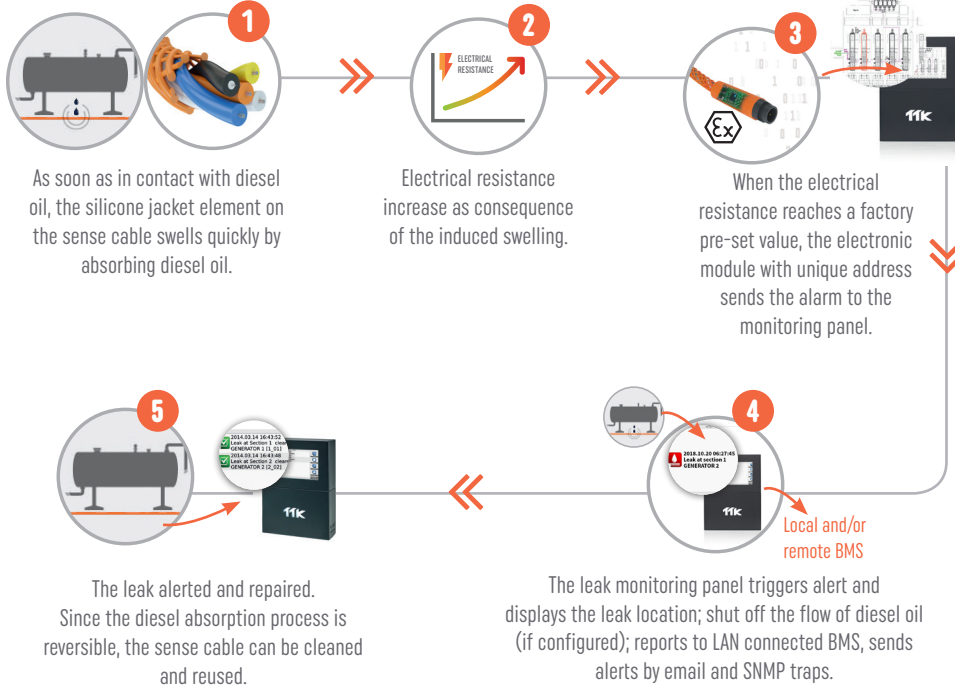
FG-NET range of high capacity digital leak monitoring panel



Four (or Eight) zones leak monitoring panel (FG-ALS4/8-OD)

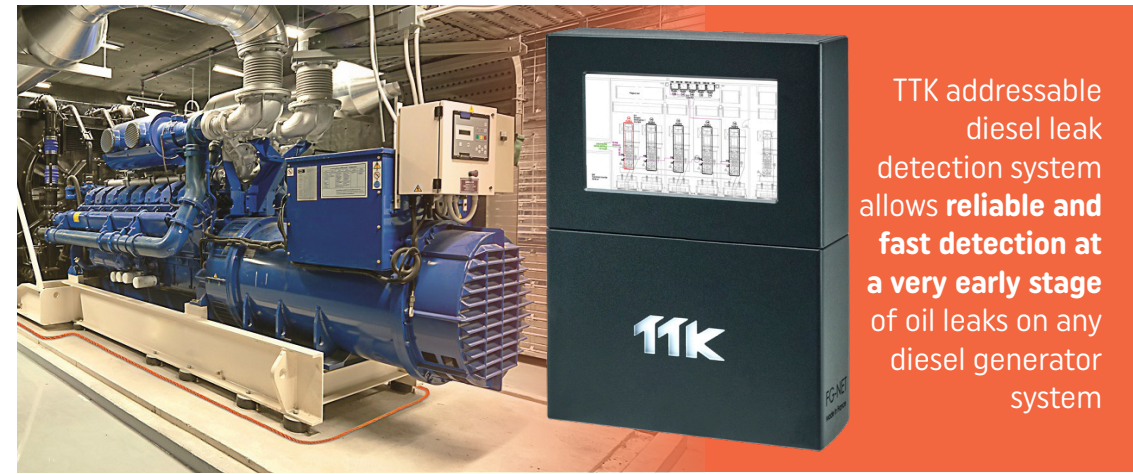
- 1: SENSOR
- 2: LEAK
- 3: LEAK
- 4: OK

# HOW DOES TTK DIESEL LEAK DETECTION SYSTEM WORK

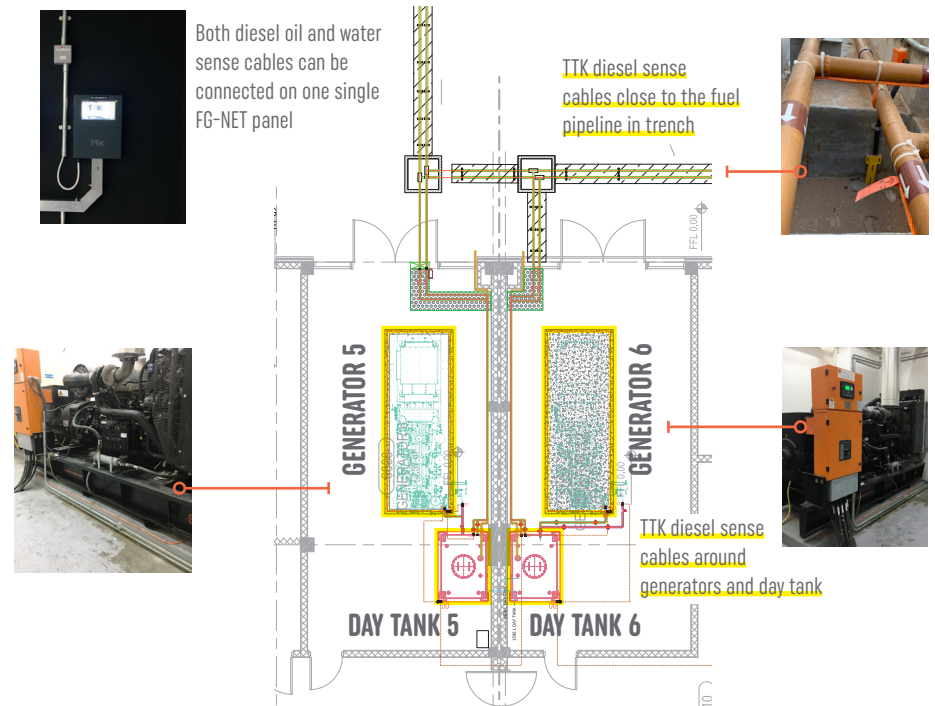


## ADVANTAGES OF TTK DIESEL LEAK DETECTION SYSTEMS

- ▶ Early detection with accurate location of leaks (precision to section length).
- ▶ Reliable detection, not affected by water or pollution.
- ▶ Multiple leaks can be detected thanks to the unique address of each sense cable.
- ▶ Truly versatile system: both diesel and water sensing cables can be connected on a single FG-NET monitoring panel.
- ▶ Flexible solutions available for monitoring small, medium and large areas.
- ▶ Cost savings with re-usable oil sensors.
- ▶ TCP/IP connection, MODBUS integration.
- ▶ Easy installation and extension; plus friendly maintenance.
- ▶ Can be used in hazardous areas with explosive atmosphere (ATEX "Zone 0").



## LEAK DETECTION SYSTEM INSTALLATION EXAMPLE IN A GENERATOR ROOM



Find out more at [ttkuk.com](http://ttkuk.com) or connect with us :

