

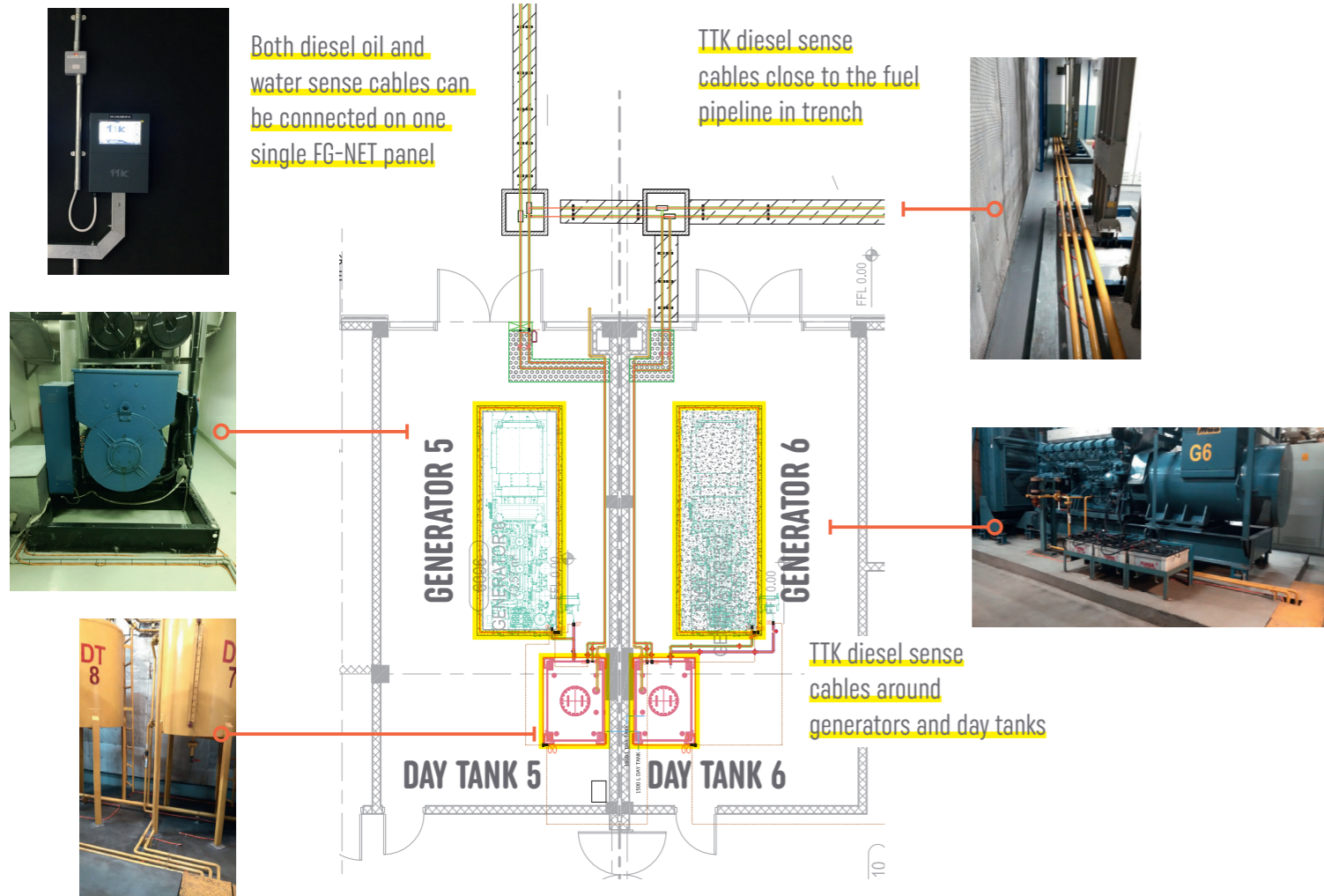
TTK addressable diesel leak detection system allows **reliable and fast detection** at a very early stage of oil leaks on any diesel generator system



# DIESEL OIL LEAK DETECTION SOLUTIONS FOR GENERATORS



## LEAK DETECTION SYSTEM INSTALLATION EXAMPLE IN A GENERATOR ROOM



## 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.

## 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



30 year manufacturing and installation expertise



Industry-leading 10 year warranty on all products



Technology and products Made in France



Holder of 4 industrial patents in 7 countries



Installation in over 64 countries



ATEX, FM approved



ISO9001 certified company

TTK headquarters / 19, rue du Général Foy / 75008 Paris / France

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



# 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.

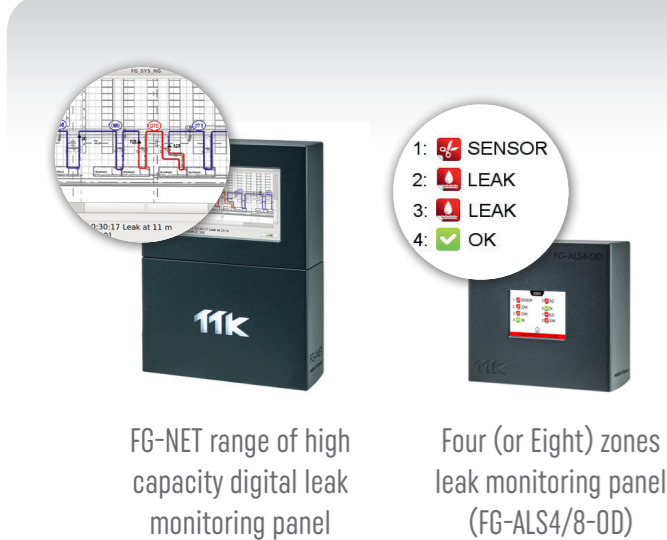
**Diesel Sense Cable** - The addressable cable provides fast and selective detection of diesel leak upon contact, along the entire length, standard length sense cable provided with built-in plug-socket connector.

**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).



## 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.

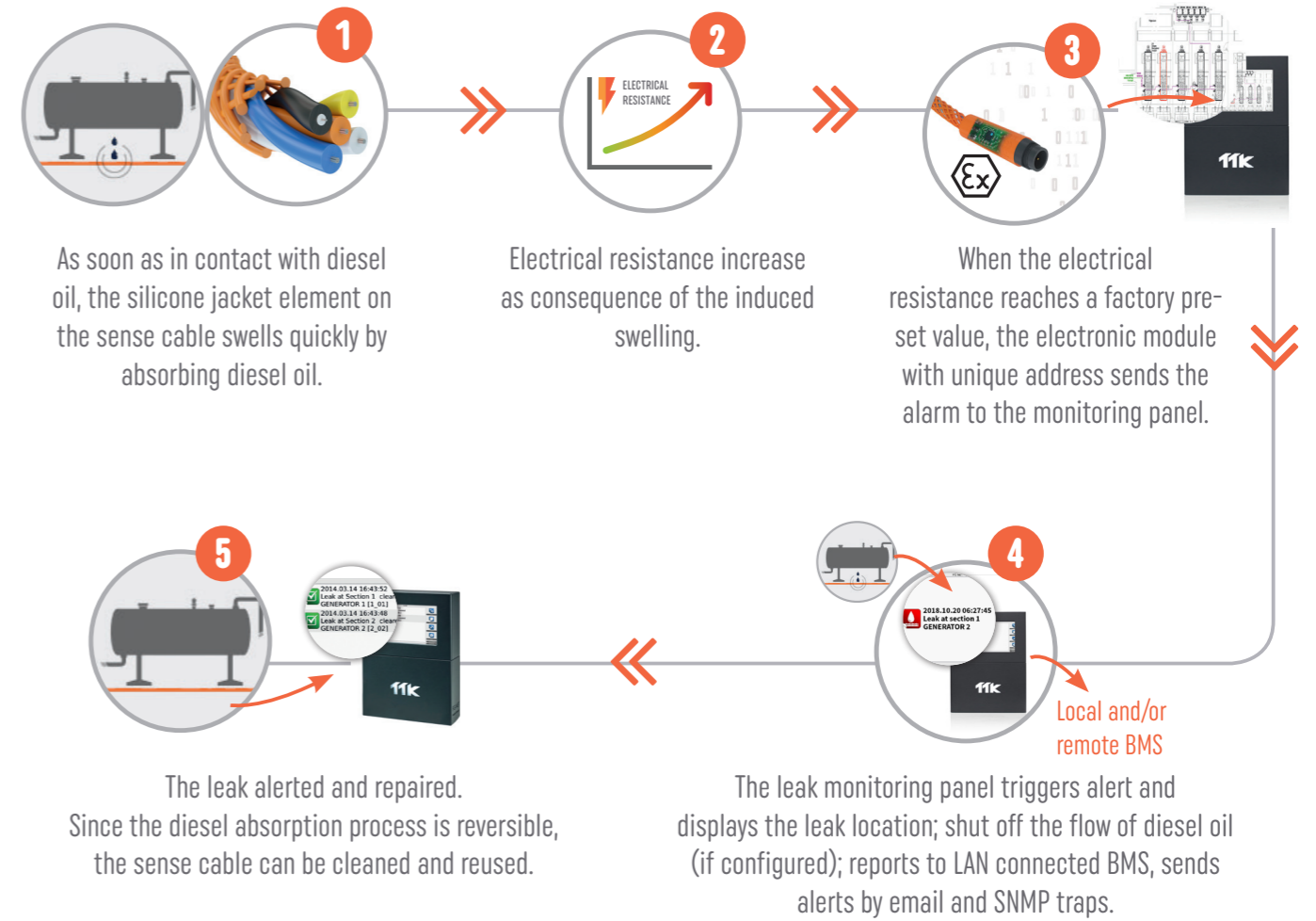


**Digital Leak Monitoring Panel** – They are designed to collect and transmit information from the sense cables (or point sensors) to local panel and/or remote Building Management System via JBUS/MODBUS protocol.

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



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

