



Wireless leak monitoring system

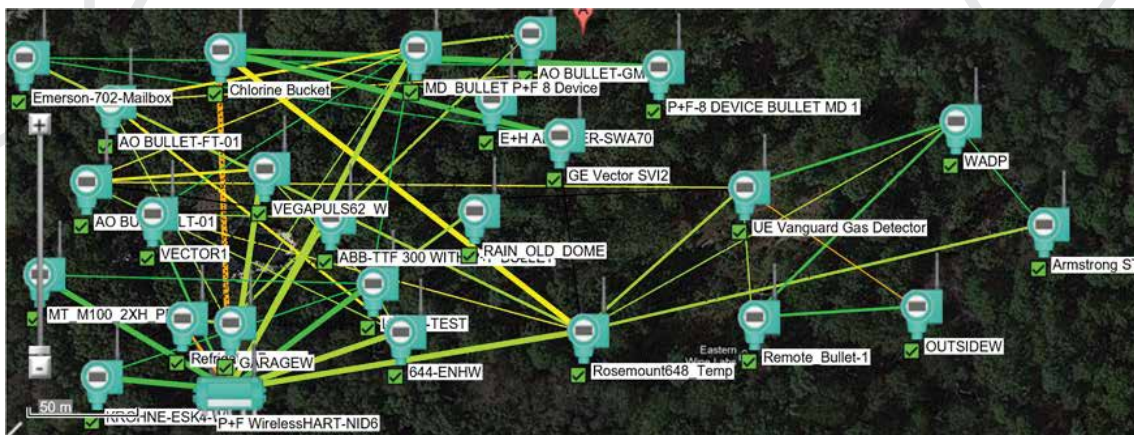


The system

MERCON's oil and gas leak monitoring system is a solution for tank farms, refineries, gas terminals and other industries. It provides spill prevention, personel and equipment protection as well as environmental safety. Our solution offers the ability to build a completely new leak & spill monitoring system or add a new safety layer to an existing one.



From the beginning, our aim was to create an easy to deploy and expand, highly flexible, fully wireless solution, minimizing investment and startup time. Thanks to intelligent, mesh WirelessHART network architecture, each device can communicate directly with other devices or indirectly through other network elements, without using special signal repeaters. Additionally, this network architecture is self-adapting, rerouting signals automatically through other devices if one of them fails or loses connectivity.



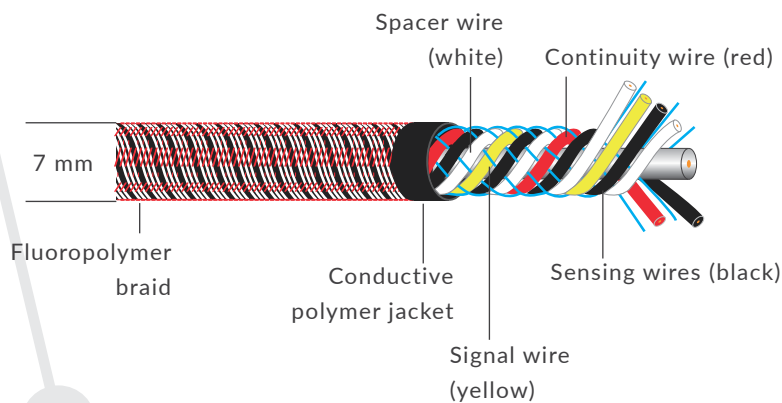
Our field mounted detectors do not require cable connections reducing material and labor costs in new projects or upgrades of existing plants. Without physical cable connections any last minute or after startup modifications are easy to make by simply relocating the sensors or introducing new ones.

Leak detection

TraceTek is a unique industrial leak detection technology based on a conductive polymer cable detecting at any point along its length.

The majority of the market solutions for leak detection perform indirect detection by a moving float or a capacitance change. TraceTek monitors the leak directly. The sensing cable has two insulated wires and two polymer coated electrodes in which current flows. If a spill occurs, current will seek the path of least resistance and flow across the leak. This results in continuously monitored voltage drop change. The value of the voltage drop is used to calculate the location of the leak source.

This technology provides a 100% sensing certainty for the target media, no false alarms and accurate location of the leak source at 25000 - 50000 ppm in liquid and vapor phase. The detection time is only a few seconds and no electromechanical parts are used.



Gas detection

UE's Vanguard is an ATEX certified, compact, wireless, toxic and combustible gas detector. Connecting is very easy and does not require any cables - each unit has a built-in WirelessHART communication module. The start-up requires only a few single button presses.

Its unique sensors do not require any tools or a hot permit to replace in the field. So does its exceptional, 5 year lifetime guaranteed battery. Using FLEXsense™ technology, the monitor automatically identifies any new connected sensors and configures itself accordingly.

The Vanguard seamlessly integrates with existing control systems (PLC, DCS, ESD), supervisory control and data acquisition (SCADA) or asset management systems (AMS).

Features:

- WirelessHART communication
- single button operation and calibration
- built-in graphic display
- robust Ex d aluminum housing
- sensors: CH₄, H₂S, CO, ammonia



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