

# OPTILEVEL WIRELESS

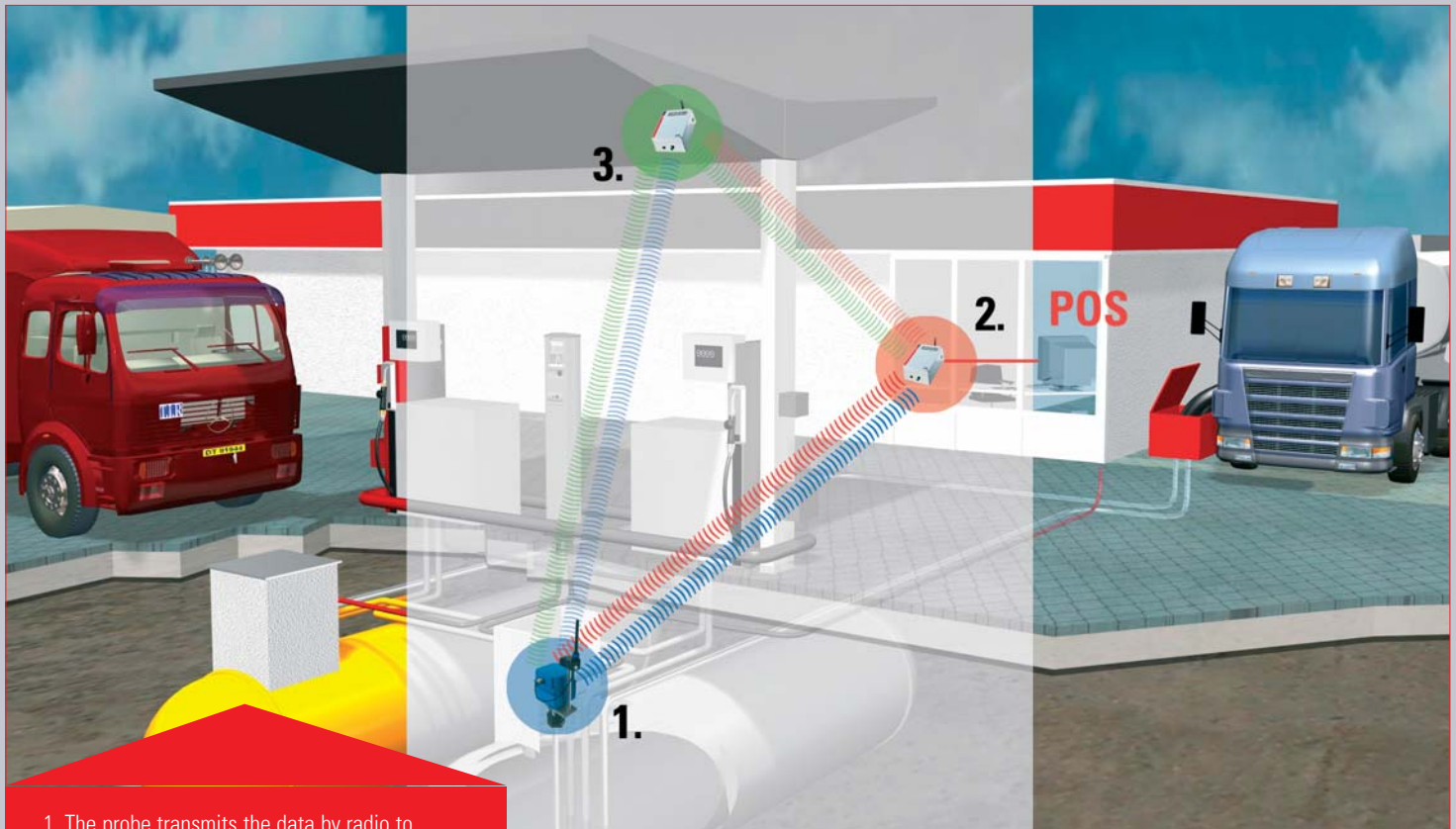


## The clever wireless solution thanks OPTILEVEL WIRELESS

The wireless solution can be used for all applications where it is not possible or simply too expensive to lay a cable or to install retroactively empty ductwork for the connection of conventional probes. In order to receive continuous level information and to pass it on to parent systems, there is no need for excavation due to the wireless solution. The probe HLS Wireless and OPTILEVEL WAVE is required to achieve a radio link.

The level measuring probe including the wireless module is powered by a battery located in the headshell. All components are located in the probe headshell. Only the radio antenna on the outside and can be mounted user-specific at the most convenient location in the manhole pit. The highest degree of safety - also according to IP 68 - is guaranteed. Adverse environmental impact can therefore hardly harm the technology.

# THIS IS HOW THE OPTILEVEL WIRELESS SYSTEM WORKS



1. The probe transmits the data by radio to OPTILEVEL WAVE.

2. OPTILEVEL WAVE transmits the data continuously to the parent system.

3. If the distance is too far, a repeater has to be installed along the radio link as an amplifier. This amplifier receives data from the converter as well as from the probe and forwards it.

## OPTILEVEL WAVE - the central collection point

OPTILEVEL WAVE serves as the central collection point of all level measuring probes. All transmitted radio data from the probes is saved here and forwarded via the serial interface to parent systems.

In order to remain compatible, both probe systems (wired and wireless) can be operated simultaneously. Wireless probes can therefore be integrated into already existing cabled probe networks. The connection is carried out via OPTILEVEL WAVE's TTL interface and those of the supply.



## Advantages of the OPTILEVEL WIRELESS system

- All wireless technology probe components are integrated into the headshell.
- Housing protection category IP 68
- Compatible with all OPTILEVEL appliances (mixed operation possible)

## The wireless repeater - the amplifier

In order to increase the radio distance, there is the option to integrate the wireless repeater into the wireless network. This repeater acts as an amplifier for the radio link. If the conditions are favorable, distances of up to one kilometer may be bridged.

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## TECHNICAL DATA

Frequencies	in 2.4 GHz frequency band
Transmission	according to IEEE802.15.4 norm
Protection category	IP 68
Temperature range	Medium: -25°C to +100°C* Environment: -25°C to + 60°C*

The battery life of a probe is about three years providing the test cycle is five minutes.

\*If used in potentially explosive area max. 60°C