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Measure and monitor wirelessly in ATEX areas

Lapp Automaatio now offers the possibility to install the IoTKey® wireless measurement and remote monitoring system in hazardous industrial environments.

The long range and battery life, as well as good immunity from interference, are as before. The new feature is an ATEX-certified casing with applicable glands. Enclosures are available in single-transmitter or four-transmitter versions. The Ex db / Ex tb protection method is applicable in Ex zones 1/21.

Vesa Tepponen, Product Group Manager, notes that Lapp Automaatio Oy's Ex-enclosed measurement transmitter can be installed in numerous ATEX environments, such as in oil refineries.

“This technology can be used in many demanding industrial applications, such as in the energy sector and the chemical/petrochemical industry. The transmitter has good interference immunity and low energy consumption. The network does not need as many access points as WLAN based solutions, for example. Even in large factory areas, measurement data can often be collected with a single gateway device,” says Tepponen.



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Use multiple measuring points – get various measurement data

One IoTKey® multiuse transmitter can be connected to up to three measuring sensors to read various measurement data, such as temperature and resistance. Other variables can also be read through the mA/V input channel. Naturally, the equipment to be connected must be selected and installed according to the needed Ex classification. The measurement data is sent wirelessly to a gateway device, installed in a safe, non-Ex area – even over long distances and in challenging conditions.

Long distances? No problem

The international LoRaWAN (Long Range Wide Area Network) communication network was chosen for its wireless connections. LoRaWAN is a reliable, long-range data transfer solution. In Europe the network uses the 868 MHz frequency. Indoors, the wireless signal range is easily hundreds of meters, and outdoors it can be several kilometers. Due to the LoRa technology, the battery can last for years, depending on the application.

For more product details, please visit: <https://www.epicsensors.com/en/products/iotkeyr-products-and-services/iotkeyr-for-atex-environments/>



WLT310 GUB EXD models for up to four transmitter applications



WLT310 XD EXD models for one transmitter applications

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