

Press release

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Submersible pressure sensor LS-1000 from WIKA now with Ex approvals

Hydrostatic level measurement in hazardous areas

Klingenberg, March 2026. The LS-1000 submersible pressure sensor from WIKA is now certified in accordance with the European ATEX and international IECEx directives. The sensor continuously measures the level of liquid media in industrial environments. Thanks to the new approvals, companies can now also use it in hazardous areas of ATEX zone 0 and 1 as well as IECEx zone 0, 1 and 2. This applies to numerous applications, for example in the process industry, wastewater and environmental technology and power generation. Typical applications include wastewater lifting stations, pumping stations and oil and fuel tanks.

The LS-1000 measures levels hydrostatically from 1 ... 10 m [3.28 ... 32.81 ft]. Optimal long-term stability of 0.2 % ensures precise measured data and minimal signal drift. Thanks to its robust design, the stainless steel submersible pressure sensor is permanently sealed in accordance with ingress protection IP68. A specially developed cable provides effective strain relief, and potting of the cable inlet provides additional protection. Each individual device undergoes a helium leak test during the final inspection. Even the smallest leaks and hairline cracks are detected here.

The submersible pressure sensor is maintenance-free, minimising failures, downtimes and total cost of ownership. It can be operated with a 5 V battery, as the energy-saving ratiometric 0.5 ... 4.5 V output signal consumes less than 5 mA. This places such a low load on the battery that it does not need to be replaced for years.

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Image material:

Caption: The LS-1000 submersible pressure sensor is now approved for use in Ex areas. (Image source: WIKA)

About WIKA

The WIKA Group is a global market leader in pressure and temperature measurement. The company also sets the standard in level, force and flow measurement and in calibration technology. The broad portfolio of high-precision instruments, IIoT solutions and comprehensive services makes WIKA a strong and reliable partner for all the requirements of industrial measurement technology. The family-run business, founded in 1946, has a global presence with 11,000 employees. This includes its own subsidiaries, production sites and development departments, such as the Innovation Center in Klingenberg. There alone, over 100 engineers work on smart sensing solutions that provide answers to global challenges. WIKA's unique experience and know-how make sensing technology smarter, add more value and prepare it for a sustainable future: Smart in sensing.

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