

KROHNE Nuclear Process Instrumentation Transmitter Solutions

Expanding the Westinghouse Instrumentation Portfolio

Westinghouse Parts Business (WPB) is proudly partnered with KROHNE Nuclear to offer comprehensive solutions for process instrumentation. With 50 years of experience, KROHNE has established a reputation for reliability and proven performance in plants worldwide, including Westinghouse's AP1000 facilities, deploying tens of thousands of instruments.

Beyond its large portfolio of flowmeters, KROHNE offers level, pressure, and temperature transmitters, along with adjacent product options including standpipes, to meet a wide range of applications and measurement needs. Many plants are opting for KROHNE transmitters to replace original pneumatic transmitters in applications such as feedwater heater level control, underscoring their versatility and effectiveness.

Temperature Transmitters

OPTITEMP transmitters offer continuous temperature monitoring of steam, coolant, lubricant oil and other critical components to prevent overheating, making them essential for nuclear safety. They are engineered with a robust mechanical design that complies with nuclear standards and includes both environmental and accidental qualifications, ensuring dependable performance in challenging conditions.



Hydrostatic Pressure Transmitters

Hydrostatic pressure sensors, like the **OPTIBAR** series, are integral to precise level measurement. They ensure efficiency and safety across applications such as monitoring feedwater, steam and air levels. Crucial for nuclear safety, they offer environmental qualifications, guaranteeing reliable performance in demanding conditions.



<https://info.westinghousenuclear.com/westinghouse-parts-business>

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KROHNE Level Transmitters

KROHNE's extended product portfolio includes various level transmitter technologies such as Guided Wave Radar (GWR), FMCW Radar, and Hydrostatic Pressure.

Guide Wave Radar (GWR) Level Transmitters

The GWR transmitters **OPTIFLEX** and **POWERFLEX** are contact level measurement devices based on Time Domain Reflectometry (TDR) technology. With extensive operating experience, these solutions require minimum maintenance and deliver reliable, continuous and precise measurements ($\pm 0.39''$), even in challenging environments like BWR primary and secondary side conditions. For high radiation levels, the converter can be positioned up to 1,400 feet away from the probe, distinguishing KROHNE apart from its competitors. Designed for versatility, these devices are suitable for both safety and non-safety applications, adhering to ASME Section III or RCC-M standards. They are also seismically qualified to ensure robust performance under severe accident conditions, such as loss of coolant accident (LOCA).



FMCW Radar Level Transmitters

The **OPTIWAVE** and **POWERWAVE** represent advanced FMCW radar transmitters for continuous, non-contact level measurement. Featuring various designs and antennas to accommodate both safety- and non-safety-related applications, these solutions conform to nuclear standards such as ASME Section III or RCC-M, possess seismic qualification, and comply with severe accident scenarios. The converter can be installed up to 1017 feet away from the antenna which offers high resistance to radiation. With precision measurement capabilities of $\pm 0.08''$, these transmitters deliver reliable performance for distances up to 328 feet.



For additional information regarding specifications & other measurement solutions, please visit the KROHNE Nuclear website and the WPB Parts Marketplace:

<https://krohne.com/nuclear>

<https://info.westinghousenuclear.com/westinghouse-parts-business>

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