Flexibility is the main principle

OPTIWAVE 5200 –
The modular 2-wire FMCW radar level meter

In 1990, KROHNE pioneered radar measuring technology for the process industry. Ten years later, we developed the first 2-wire FMCW device. OPTIWAVE followed – an operating concept which revolutionised radar level measurement in 2004.

The latest member of the KROHNE radar level family is the OPTIWAVE 5200 C/F. Its modular housing and antenna design ensures suitability for a variety of mounting positions and applications. It can be used for liquids, pastes and slurries. Gasket-free PP and PTFE Wave Horn antennas ensure accurate level measurement of corrosive media. These features make it ideal for all industries, especially chemicals, oil and gas, power, wastewater, metals, minerals and mining.

OPTIWAVE 5200 – designed and developed according to IEC 61508 for safety-related systems [SIL2].
Flexibility in the field
With a measuring distance up to 30 m / 98.4 ft, the OPTIWAVE 5200 is the perfect level radar for storage and simple process tanks. Its quick coupling system permits removal of the converter under process conditions and rotation through 360° to make the display screen easy to read. Thanks to the innovative housing design, you can also specify the way the display is fixed to the device. This makes it accessible, regardless of whether it is installed on a tank, in a recess or in buildings with low roofs. The remote version – OPTIWAVE 5200 F – features a separate signal converter with display. It allows installation and operation up to 100 m / 328 ft away from the antenna, e.g. at the tank bottom or in a control room. Today, KROHNE is the only manufacturer to offer this possibility over such a distance.

Easily upgrade existing devices
This 2-wire device is backwards compatible with all flange systems from KROHNE’s BM 70x level meters. Simply install the converter of the OPTIWAVE 5200 on the existing flange and antenna assembly; it is unnecessary to remove the device or empty the tank. This will quickly bring your existing measuring equipment up to date so that it conforms to the highest standards and provide you with options such as SIL, ATEX, FF, Profinet PA and HART.

Proven quality from KROHNE
KROHNE ensures that its devices are accurate and reliable. The OPTIWAVE 5200 C/F measures products with low dielectric constants \( \varepsilon_r = 1.8 \) at temperatures ranging from -60 to +250 °C / -76 to +482 °F and pressures up to 40 barg / 580 psig*. Its robust housing is available in stainless steel or aluminium.

*higher on request

Highlights:
• Modular housing and antenna design
• Quick coupling system permits removal of the converter under process conditions
• Backwards compatible with all BM70x level meters
• Measuring range: up to 30 m / 98.4 ft
• PACTware™ and DTM provided free of charge and with full functionality
• Remote converter: up to 100 m / 328 ft away from the antenna
• Display text in 9 languages (incl. Russian and Chinese)
• SIL2-compliant according to IEC 61508 for safety-related systems

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