Press Release

KROHNE level gauges – the measure of all things in radar

KROHNE OPTIFLEX

The new radar level measuring devices OPTIWAVE and OPTIFLEX are not only cutting-edge in terms of application reliability and ease of operation, they have meanwhile repeatedly stood the test under practical conditions.
The start-up procedure for OPTIWAVE and OPTIFLEX is totally uncomplicated using the Quick Setup Assistant. The standard signal converter with large graphic display is controlled by way of four piezoelectric pushbuttons from the outside of the housing. Both devices have HART capability and are supplied together with PACTware and costfree DTM with full functionality, including data recording and reproduction. OPTIWAVE and OPTIFLEX both have a high standard accuracy of +/- 3mm.

The KROHNE **OPTIWAVE** is not a pulse radar device but a 2-wire radar level gauge based on continuous FMCW (Frequency Modulated Continuous Wave) technology. Thanks to this 26-GHz FMCW radar system, together with very high dynamic response and large bandwidth, it is possible to achieve high resolution, accuracy and maximum application reliability. The higher signal dynamics of OPTIWAVE allow measurement in even the most difficult applications. Even weak signals can be readily evaluated, so making measurement easier in cases with wide measuring ranges and poorly reflecting media.
The high signal dynamics of the KROHNE **OPTIFLEX** allows stable and accurate measurements. The "sharper" signal pulses allow measurement of interfaces as thin as 50 mm. Particularly helpful in practice has proved to be the integrated nil echo recording for the first metre. Even larger interference factors such as strongly agitated surface, foam or adhesions to the sensor have hardly any effect on measurement.
The outstanding time base stability on the other hand allows better reproducibility, which in turn provides for greater process reliability. In the meantime KROHNE can offer sensor coatings of gold, silver, platinum and nickel/PFA. These are highly resistant to corrosion, anti-adhesive, and elastic through the use of nanoparticles. In terms of price, they are also an extremely attractive alternative to special materials such as tantalum, titanium, etc.

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