

Radar technology can now be used even in small containers

The big advantage of radar technology is its ability to measure under different and changing process conditions across a variety of media. However, up until now, the use of the sensors in small vessels was very limited, because sensors were not available with the necessary small process fittings as well as not achieving the accuracy and measurement certainty required at very close range.

Guided radar has been used as an interesting alternative, but it quickly reaches its limits in applications with very strong product movement, agitators and the

very high demands on hygiene.

Although the close range of radar sensors is not limited by a dead band, the previous technologies were often subject to limitations because the interfering signals from the antenna system could cause accuracy problems or even obscure the echoes from the product surface.

The high frequency of **VEGAPULS** 64 not only facilitates the use of significantly smaller process fittings, it also ensures significantly better measurement performance when the sensor is used in small vessels. The large sensor bandwidth produces very narrow echo signals, which enables a significant increase in measurement accuracy, even at close range.

The use of new antenna technologies for 80 GHz frequency range has assisted in reducing the interfering signals at close range – the result is significantly higher measurement reliability right in front of the antenna. Due to these significant performance enhancements, VEGAPULS 64 can also be used in smaller vessels.

The benefits

- Accurate, universal radar technology can be used in very small vessels Non-contact, hygienic and wear-free measurement Easy replacement of existing technology thanks to the process fittings

Expert tin

The strength of the reflected signal is determined by the medium and the size of the antenna. Level measurement directly in front of the antenna is more challenging when the medium reflects poorly and the antenna is very small. When measuring oil products with a ¾" antenna system, it is a good idea to maintain a minimum distance of 10 - 15 cm which can be achieved with a stand-off nozzle, but if larger process fittings are used, this distance can be considerably shorter.



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Applications

IBC-Tank (metallic)
Batch filler vessel
CIP system - cleaning agent storage tanks