

▶ Reflecting the future



KROHNE

▶ *achieve more*

▶ **OPTIWAVE 6300 C** **Radar level measurement of solids**

Are you looking for accurate level measurement of your solids, even if they are powder, granulate, bulky solid or in a dusty atmosphere?

With 20 years of experience in manufacturing FMCW radar level transmitters and an antenna specifically designed for measuring the uneven surface of silo contents, KROHNE offers the ideal solution for solid measurement.



Perfectly shaped antenna

The drop form (patent pending) of our new plastic antenna generates a smaller half-beam angle (2°) compared to conventional antennas. Therefore an antenna aiming kit to amplify the reflected signal in the silo is unnecessary.

The innovative drop form prevents crusting or a layer of dust on the antenna. It is ideal for applications with dust formation, such as mineral powder (cement, lime, calcium carbonate, etc.) and granulates or wood chips. This makes the device maintenance free.

Antenna options

Choose the optimal antenna for your application:

DN 80 made of PP or PTFE and DN 150 made of PP. The conventional stainless steel horn antenna up to DN 150, with standard purging system, is also available. All can be retrofitted with antenna extensions up to 2 m (6.5 ft) for long and narrow nozzles.

The maximum operating temperature and pressure depends on the antenna material:

- PP: 80°C (175°F), 16 bar (230 psi),
- PTFE: 150°C (300°F), 40 bar (580 psi),
- stainless steel: 200°C (390°F), 40 bar (580 psi).

The measuring range is from 0.5 to 60 m depending on the antenna size and ϵ_r value and up to 80 m on request. Minimum process connection sizes are 1½ NPT/G 1½ and DN 40 upwards.

Easy to configure

The installation wizard is specifically adapted to bulk solid measurement. Start-up is easy due to the Quick Set-up wizard and a comprehensive help function. The large screen with 4-button keypad makes navigation easy. It displays information in nine languages including Chinese, Japanese and Russian.

All kinds of industries

The OPTIWAVE 6300 C measures powder, granulates and bulk solids in buffer silos, hoppers, bulk storage containers and on conveyor belts. Its versatile design makes the OPTIWAVE 6300 C suitable for various industries, such as mineral and mining, food, chemicals, pulp and paper and power. ATEX certification is pending.

OPTIWAVE 6300 C: Proven technology tailored for the measurement of solids

OPTIWAVE 6300 C is a 2-wire 24 GHz FMCW radar. This non-contact technology guarantees accurate measurement of your stocks.



OPTIWAVE 6300 C with DN 80 antenna - short version



OPTIWAVE 6300 C with DN 150 antenna and antenna extension



OPTIWAVE 6300 C with DN 80 stainless steel horn antenna