



▶ State-of-the-art technology
for everyday use

KROHNE

▶ *achieve more*

▶ **OPTIFLEX 1100 C – The TDR level meter with
an excellent price-performance ratio**

Why does Time Domain Reflectometry (TDR) technology have such a great reputation in the high-end process industry? Because it isn't affected by changing process conditions like varying dielectric constant or density, agitation and foam.

Now TDR's success has opened up a whole new, exciting opportunity. For the same cost as a Radio Frequency (RF) capacitance, conductive or pressure level meter, you can use this advanced technology for less complex process and storage applications. This saves time and money.

Ideal for these industries: OEM equipment, machine and skid assembly, tank and silo building, water and wastewater, pulp and paper, agriculture, chemical, automotive, food and beverage.



OPTIFLEX 1100 C

Single cable
Ø2 mm
for liquids

Coaxial
Ø14 mm
for liquids

Single cable
Ø4 mm
for solids

Leaving traditional level meters behind

OPTIFLEX 1100 C is the perfect replacement for traditional level measuring devices such as (RF) capacitance, conductive and pressure level meters.

The OPTIFLEX 1100 C has a number of obvious advantages over traditional meters. It isn't affected by physical property variations like dielectric constant, density or conductivity. And because there are no fragile or moving parts, it is also more robust. Unlike (RF) capacitance, which requires wet calibration, the OPTIFLEX 1100 C needs no calibration and is simple to configure. What's more, there are no linearity problems in irregular or cylindrical shaped tanks.

You also have full flexibility when it comes to installation, because the OPTIFLEX 1100 C can be mounted on a tank or a bypass chamber. The mounting of the OPTIFLEX 1100 C requires no changes to the existing piping and often simplifies the overall installation.

Quick Setup

There is no special expertise required to set up the OPTIFLEX 1100 C. You have a choice of three probes which can all be shortened on site. The unit is ready for use via an intuitive five-step quick setup procedure. The time you can save on device configuration makes it well worth the investment. All this adds up to a world-beating price-performance ratio.

Highlights:

- 2-wire loop-powered level meter for liquids and solids
- Compact to suit multiple OEM applications
- Reliable measurement even in tanks with moving surfaces, foam or tank inserts
- Converter can be rotated and removed under process conditions
- Operating pressure range: -1...16 barg
- Ambient temperature range: -40...+80 °C
- Process connection temperature: -50...+100 °C
- Accuracy: ±10 mm (liquids), ±20 mm (solids)
- Min. dielectric constant: 2.1 (single cable), 1.6 (coaxial)
- Aluminium IP 66/67 housing
- All wetted materials in stainless steel
- Process connections: G $\frac{3}{4}$ or G1; $\frac{3}{4}$ NPT or 1 NPT

Contact

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Adds value anywhere

OPTIFLEX 1100 C is trusted in storage or simple process environments such as:

- OEM equipment industry
e.g. as part of an automatic oil lubrication feed system
- Machine and skid assembly industry
- control of water and detergents in industrial washing machines
- filling machines for ink and beverages
- Tank and silo building industry
- level measurement in tanks for water, oil, glycol
- Water and wastewater industry
- level control in water basins, ports and locks
- Pulp and paper industry
- all kinds of storage and recycling tanks
- Agriculture industry
- water control for greenhouses
- feed management in large livestock plants
- blood recovery in abattoirs
- Chemical industry
- storage of plastic pellets, granulates
- Automotive industry
- paint booths
- lubricant oils
- Food and beverage industry
- wine, beer, fruit juice in various storage and recycling tanks
- frying oil recovery collectors

