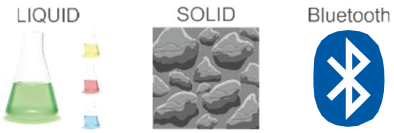
120 GHZ Compact Radar Level Gauge

BCR1000





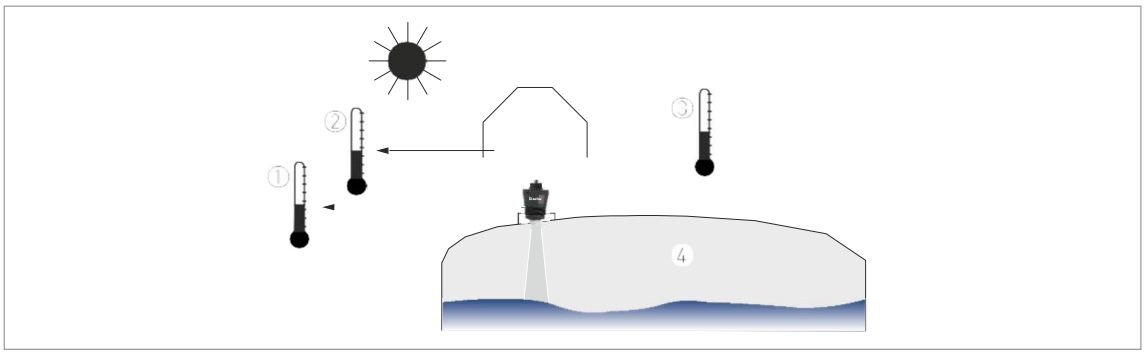
Features

Compact design
No need air purge
Cost effective
More application in remote target detection
Frequency modulation (FCMW radar)
Higher resolution
Long distance imaging and multi-spectral imaging

Application

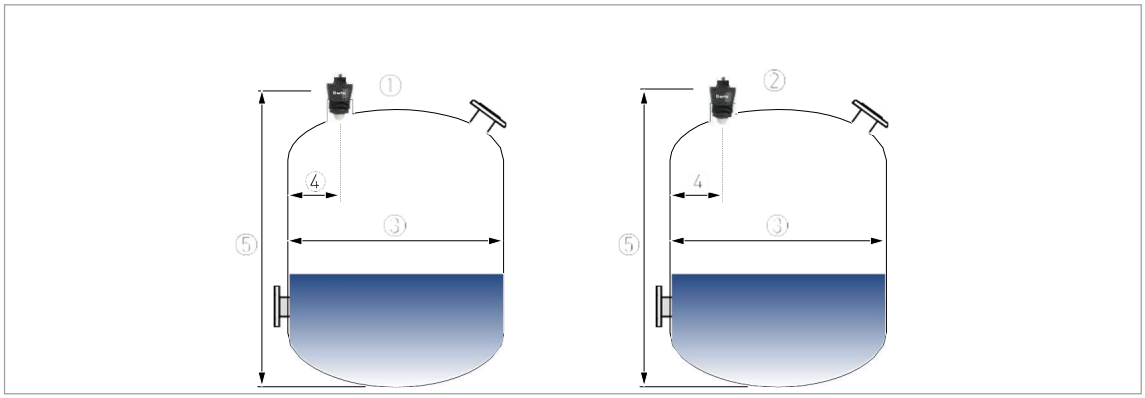
Sediment, cement etc
Simple chemical tanks
Lift station
Industrial processes
River, oğen channel
Wet wells

Installation:



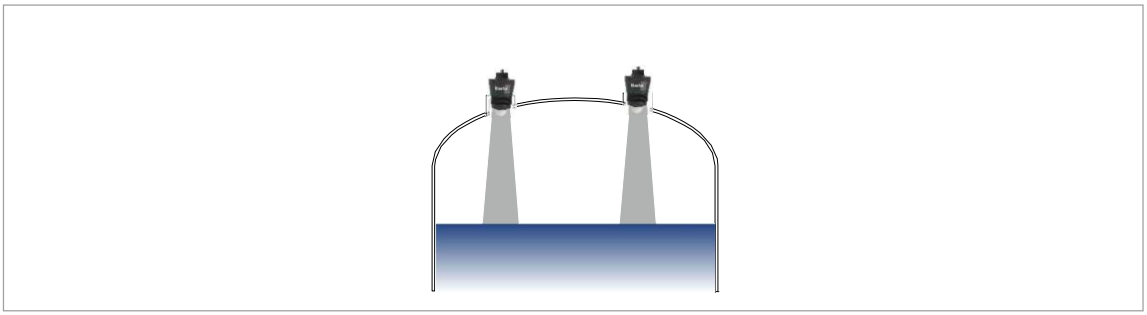
Pressure and temperature ranges
Temperature at the process connection
Ambient temperature for operation of the display
Ambient temperature
Process pressure

We recommend that you prepare the installation when the tank is empty



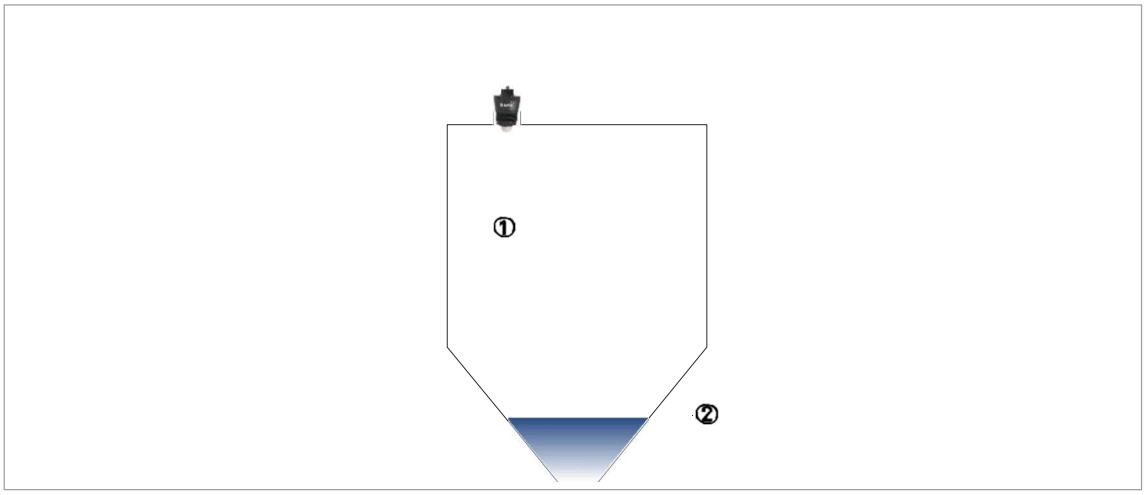
Recommended nozzle position for liquids, pastes and slurries

Socket for the DN25 Lens antenna
Socket for the DN40 Lens antenna
Tank diameter
Minimum distance of the nozzle or socket from the tank wall



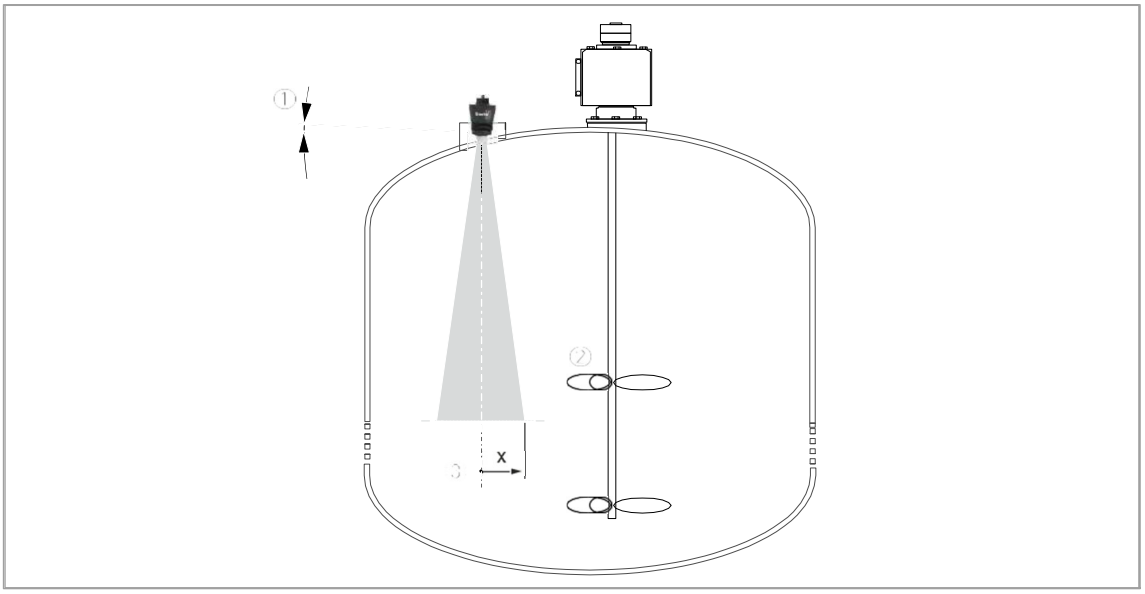
There is no maximum limit to the number of devices that can be operated in the same tank. They can be installed adjacent to other radar level transmitters.

Dish-shaped or conical bottoms have an effect on the measuring range. The device cannot measure to the bottom of the tank. If possible, install the device as shown in the illustration that follows;

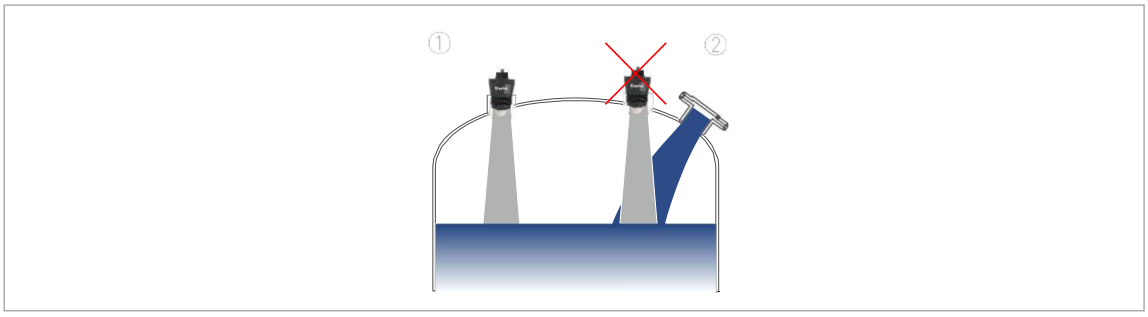


Tanks with dish-shaped or conical bottoms
Equipment and obstacles: how to prevent measurement of interference signals

Axis of radar beam
Minimum level reading



Product inlets



Do not tilt the device more than°2
We recommend that you do an empty spectrum recording
Beam radius of the antenna The beam radius increases by increments of "x" mm for each metre of distance from the antenna.

CAUTION!

Do not put the device near to the product inlet. If the product that enters the tank touches the antenna, the device will measure incorrectly. If the product fills the tank directly below the antenna, the device will also measure incorrectly.

Specifications

	BCR1000-A	BCR1000-R	BCR1000-H
Measuring Range	Up to 10m	Up to 18m	Up to 40m
Beam Angle	5°	5°	5°
Process Connetion	Thread G1 ½, G1 ½ NPT	Thread G2 ¼ , G2 ¼ NPT	Thread G2 ¼ , G2 ¼ NPT
Meas. Frequency	120 GHz technology	120 GHz technology	120 GHz technology
Sensor Material	POM / PVDF (option)	POM / PVDF (option)	POM / PVDF (option)
Housing Material	POM / PVDF (option)	POM / PVDF (option)	POM / PVDF (option)
Ingress Protection	IP68 (3bar) acc. To IEC 60529	IP68 (3bar) acc. To IEC 60529	IP68 (3bar) acc. To IEC 60529
Temperature	-40…+80°C	-40…+80°C	-40…+80°C
Operating Pressure	-1…+3 bar	-1…+3 bar	-1…+3 bar
Power Supply	9…38 VDC	9…38 VDC	9…38 VDC
Accuracy	±1 mm	±1 mm	±1 mm
Output	Two wire 4-20 mA + Bluetooth Optional: RS485, SDI-12, Modbus, Relay	Two wire 4-20 mA + Bluetooth Optional: RS485, SDI-12, Modbus, Relay	Two wire 4-20 mA + Bluetooth Optional: RS485, SDI-12, Modbus, Relay

Display / adjustment	Tools app, Radar Mobile Manager and Radar PC Manager (PC software)
No. Of cable entries	1 PVC insulated cable
Bluetooth standart	Bluetotth 5.0 (download compatible to Bluetooth 4.0 LE) range: 40m