

Stay in touch with your level

80 GHz radar level
transmitter type 2298



State of the art technology

The 80 GHz radar level transmitter type 2298 combines all advantages of a radar level transmitter in one non-contacting, compact and economical unit to provide consistent and accurate filling level information in a wide range of tanks, process liquids and conditions. The sensor is available in different materials to resist even the most corrosive environments.



Most advanced non-contact technology

The working principle of the sensor type 2298 uses the W-Band radar signal. Billions of microwave impulses per second are emitted by an antenna with a 7° focus. This energy is reflected by the process media. The time distance between emission and reception gives a domain value. The principle allows accuracies within +/- 2 mm (+/-0.1 inch). The technology is not affected by changes of temperature, pressure or gas layers in the process and it is less sensitive to interference.



Robust

The level sensor is built to resist against most interfering factors such as fumes, light foaming, temperature or pressure fluctuations and build-up. It is especially suitable for hydrocarbons, acids and aggressive media. The type 2298 is a safe solution under extreme process conditions and vapors. A full plastic version is available to provide great chemical resistance (housing PBT IP67).



Easy setup and onsite configuration

The sensor has a 64 x 128 dot matrix LCD plugin display with graphical illustration of reflection bar graph to ease onsite setup. It includes also a comprehensive, text-based configuration menu. In this way the sensor is adaptable thanks to smart setting options. The sensor has tank mapping function to ignore internal obstruction. The intuitive set up is also possible via HART® communication protocol.



Flexible use

The sensor is especially suited for bulk storage tanks, day tanks, process vessels for mixing and batching, plastic and metal tanks. Additionally, the small dead zone and the high accuracy made it a preferred solution for small tanks.



LCD plugin display



Fit for purpose

Radar level measurement is the perfect choice for:

- Challenging tank applications where other non-contacting principles fail e.g. ultrasonic measurement
- Chemical Process Industry for storage of solvents, chlorine or ammonia, level detection in reaction vessels or buffer tanks
- Water Treatment applications such as pumping stations, sludge handling, drain level monitoring, drink water conditioning vessels

Specifications

Measured values	Level, Distance; Calculated dimensions: Volume, Mass
Measuring range	0.07 m – 30 m* (depending on dielectric constant ϵ_r of the process liquid) Minimum dielectric contact of process media ϵ_r 1.9
Resolution	0.1 mm (0.04 inch)
Power supply voltage	20 V... 36 V DC, 24 V DC nominal
Antenna diameter	1" (25.4 mm)*; 1½" (38.1 mm)
Antenna material	PP / PVDF / PTFE* / stainless steel*
Process connection	1½" BSP, 1½" NPT** thread, 1"*
Accuracy	+/- 2 mm (+/- 0.1 inch)
Frequency	80 GHz (W-Band)
Communication certifications	R&TTE, FCC
Output	2 wire 4 – 20 mA / HART® communication protocol
Approvals	CE FC UK CA

*on request



Also available in a blind version

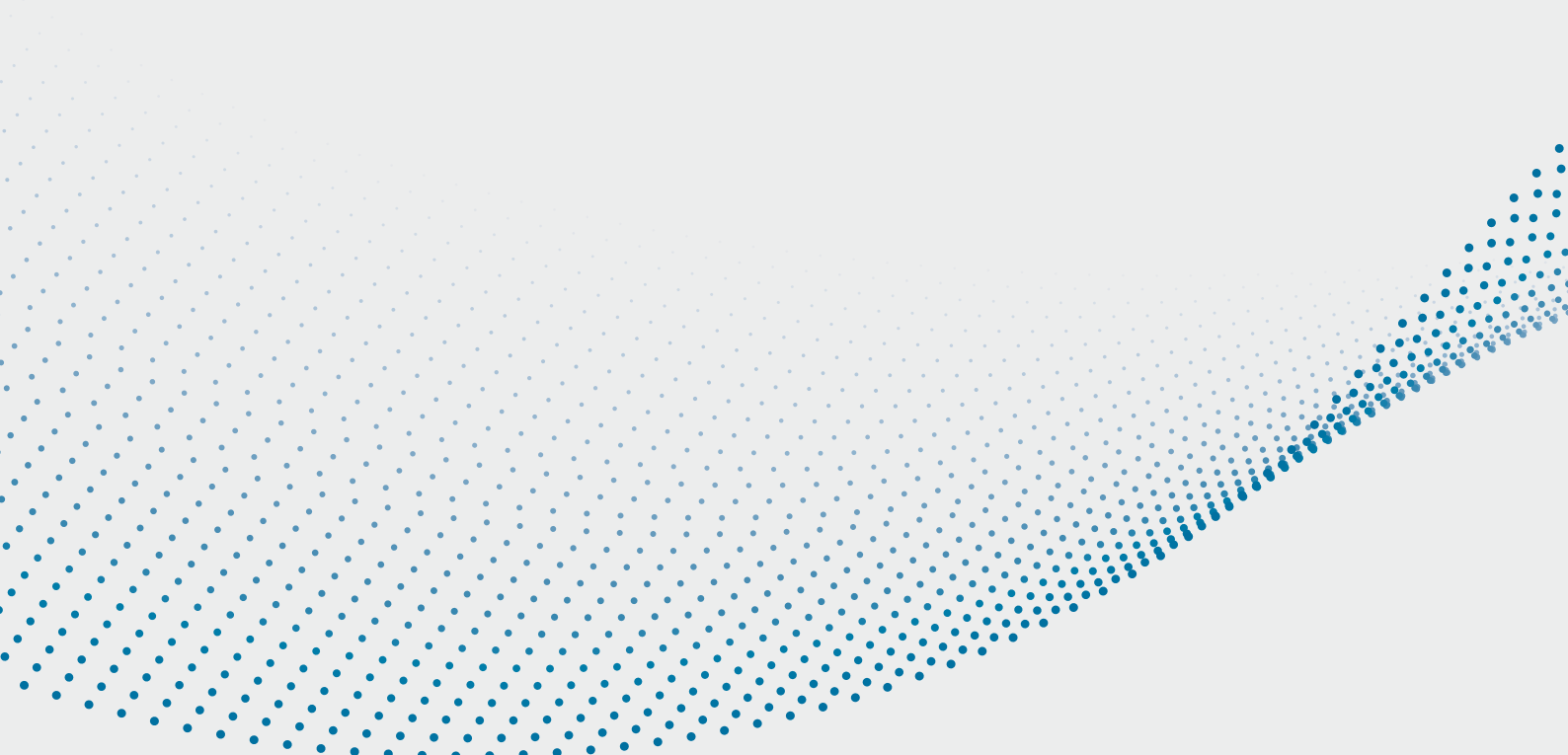


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