



### [Rosemount 5400 Radar Level Transmitter](#)

The Rosemount 5400 Radar Level Transmitter delivers higher reliability, improved safety and requires less maintenance and configuration. Suitable for measurements in high temperature/high pressure tanks, and in tanks with corrosive liquids. See how.

## Rosemount 5400 Radar Level Transmitter

You cannot afford a single misstep in your process. That's why we used our [30 years of proven radar expertise](#) to design the new non-contacting Rosemount 5400 Series to focus your plant's profitability. It delivers [higher reliability, improved safety and requires less maintenance and configuration](#). As a result you will have reduced downtime and lower installation and operating costs.

- Maximum mounting and application flexibility is ensured with a [wide range of antennas](#) and [two models](#) with different microwave frequencies, 5401 (6 GHz) and 5402 (26 GHz)
- [Dual Port Technology](#) enables a stronger signal than other 2-wire radar transmitters, providing better measurement reliability.
- [Condensation Resistant Antenna](#) is much less susceptible to coating, increasing reliability and reducing maintenance
- Faster and simpler commissioning with the easy to use [Measure-and-Learn™](#) functionality in the transmitter
- [Circular Polarization](#) reduces echoes from obstacles and tank walls
- [Advanced transmitter software](#) can be easily configured using the user-friendly software "Rosemount Radar Master" (supplied free of charge)
- [Easy integration into new or existing plants](#) with a choice of 4-20 mA with superimposed HART, modbus output, or FOUNDATION™ fieldbus with extensive support for [PlantWeb® Alerts](#)
- [Safety Instrumented Systems Suitable](#)

These features and many more were developed with the customer's bottom line in mind and make the Rosemount 5400 Series deliver like no 2-wire radar in history. In fact, it's all that Emerson does best: innovation that delivers clear business results

Key Specifications	
Measurement Principle	Pulsed, free propagating radar 5401: ~6 GHz 5402: ~26 GHz
Measuring Range	98 ft (30 m) from flange
Instrument Accuracy	5401: ±0.4 in (±10 mm) 5402: ±0.1 in (±3 mm)
Repeatability	±0.04 in (±1 mm)

Output	4-20mA with superimposed digital HART® communication FOUNDATION® Fieldbus Modbus
Temperature/Pressure Rating	Refer to the <a href="#">Product Data Sheet</a> (PDF@1500kb)
Ex-Approvals	Intrinsic safety or Explosion / Flame-proof (ATEX, CSA, IECEx, FM, ...)
Display	5-digit integral display (Optional)
Output Variables	Level, Distance, Volume, Level Rate, Signal Strength, Housing Internal Temperature, Aout current and % of Range
Enclosure	Polyurethane-covered die-cast Aluminum or stainless steel housing with dual compartments.
Ingress Protection	Type 4X, IP66, IP67
Fieldbus Functionality	Link-master device (backup LAS), Block Instantiation, PlantWeb Alerts, Methods
Fieldbus Blocks	Resource 3xTransducer 6xAnalog Input (30 ms) PID (40 ms) Arithmetic, Input Selector, Output selector (65 ms) Signal Characterizer (75 ms)
Configuration Tools	Radar Master, AMS, DeltaV, 275/375, or any other DD- or EDDL-compatible host.