

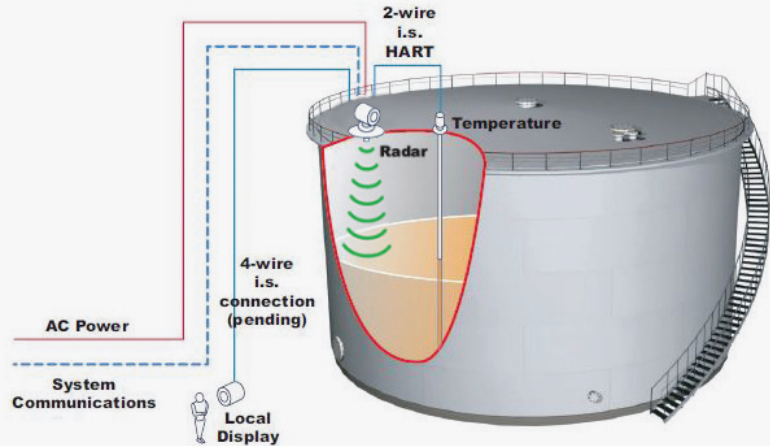


ADVANCED TANK GAUGING

High Accuracy Inventory Management
and Custody Transfer Applications

RADAR TECHNOLOGY

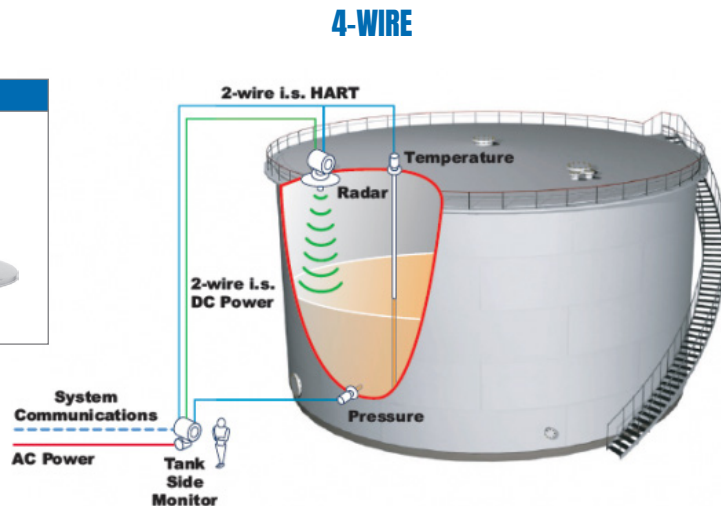
RADAR GAUGES FMR8X Series



Key Features (may vary by model):

- Accuracy rate of up to $\pm 0.5\text{mm}$ (0.02 in)
- Suitable for inventory management and stilling well applications in custody transfer
- Standard range up to 38 m (124 ft)
- Ambient temperature up to -40 to $+60^{\circ}\text{C}$ (-40 to $+140^{\circ}\text{F}$)
- Integration of e.g. temperature, water level, pressure, overfill prevention sensor
- Suitable for atmospheric and high pressure applications from 16 to 25 bar (232 to 362 psi)
- V1, MODBUS RS-485, HART protocols
- Wetted parts are completely separated from the electronic circuit
- Intrinsically safe power supply and communication for HART slave devices, e.g. average temperature sensor.
- Direct connection of spot or average temperature sensor
- Tank top mounting as small as 4"/DN100 flange
- National approvals (NMI, PTB) for custody transfer
- Approved for use in explosion hazardous areas to ATEX, FM, CSA, TIIS and IECEx standards

RADAR GAUGES FMR53X Series



Key Features (may vary by model):

- Accuracy rate of up to $\pm 0.5\text{mm}$ (0.02 in)
- Inventory control version available with $\pm 3\text{ mm}$ (0.11 in) accuracy
- Models come with either horn, planar or parabolic antenna for free space applications
- Ambient temperature up to -40°F and $+185^{\circ}\text{F}$ (-40°C and $+85^{\circ}\text{C}$)
- Standard range up to 38 to 41m (124 to 131 ft)
- Cost-effective and intrinsically safe – 4-wire cable for HART and 24 VDC i.s. power
- Easy on-site operation using built-in display
- National approvals (NMI, PTB) for custody transfer
- Approved for use in explosion hazardous areas to FM, CSA and ATEX standards

RADAR GAUGES FMR6X Series

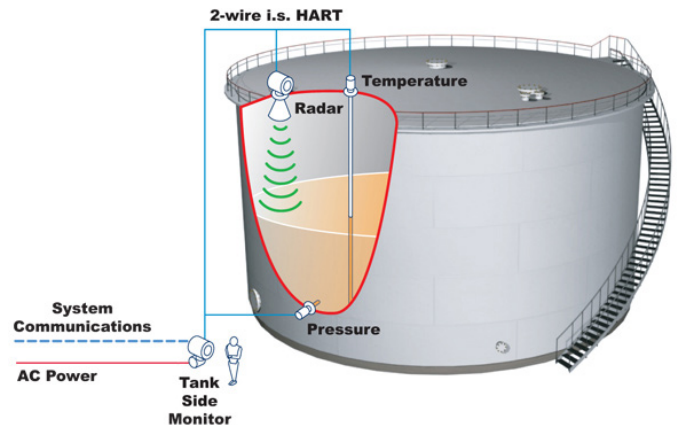


Radar technology is suitable for both non-contact high accuracy inventory management and custody transfer applications and offers an accuracy range of $\pm 0.5\text{mm}$ (0.02in) to $\pm 6\text{mm}$ (0.24in) depending on the model. These gauges use non-contact measurement; therefore, measurement is not affected by changing media, temperature changes, gas blankets, or vapors.

Key Features (may vary by model):

- Free space radar system, operating based upon the frequency modulated continuous wave method
- High accuracy inventory management up to $\pm 1\text{ mm}$ (0.04 in)
- 2-wire technology, reduces on tank wiring costs and allows easy implementation into existing systems
- Easy on-site operation using built-in display
- Suitable for pressures from -14.5 psi (-1 bar) up to 232 PSI (16 bar)
- Standard range up to 30 to 70m (98 to 230 ft)
- Suitable for process temperatures between -40° to $+200^{\circ}\text{C}$ (-40° to $+392^{\circ}\text{F}$)
- HART protocols
- Approved for use in explosion hazardous areas to ATEX, FM, CSA, and IEC Ex standards

2-WIRE



RADAR GAUGES FMR5X Series



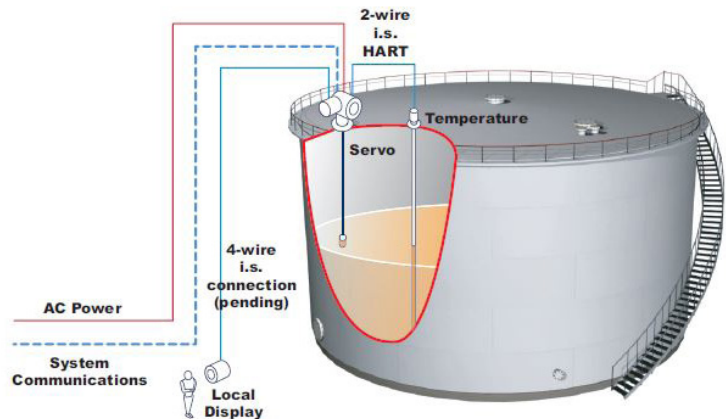
Key Features (may vary by model):

- Suitable for inventory management applications
- 26 GHz band microwaves to measure liquids to an accuracy of $\pm 2\text{ mm}$ (0.08") to $\pm 6\text{ mm}$ (0.24")
- 2-wire technology reduces on tank wiring costs and allows easy implementation into existing systems
- Easy on-site operation using built-in touch control display without opening enclosure
- For applications in aggressive liquids, offers extraordinary advantages with its completely PTFE-filled and flush-mounted 2" and 3" (50 mm and 80 mm) horn antenna
- Standard range of 20 to 40m (66 to 131 ft)
- Suitable for process temperatures between -40° to -196°C (-40° to -321°F) and 130° to 450°C (266° to 842°F) with high-temperature antenna.
- Suitable for pressures from -14.5 psi (-1 bar) up to 2320 PSI (160 bar)
- HART, PROFIBUS PA or FOUNDATION Fieldbus protocol
- Approved for use in explosion hazardous areas to ATEX, FM, CSA, TIIS, and IEC Ex standards
- SIL 2 approved for overspill protection system applications or SIL 3 for standalone applications

SERVO TECHNOLOGY

Servo technology provides an intelligent system for measuring level, interface level, density and water bottom with an accuracy rate up to $\pm 0.016\text{in}$ ($\pm 0.4\text{mm}$).

PROSERVO GAUGES NMS8X Series



Key Features (may vary by model):

- Suitable for atmospheric and high pressure applications for level measurement and custody transfer
- Pressure applications from 6 to 25 bar (87 to 362 psi)
- Operating temperature -200 to $+200^{\circ}\text{C}$ (-328 to 392°F)
- Ambient temperature -40 to $+60^{\circ}\text{C}$ (-40 to $+140^{\circ}\text{F}$)
- Outputs maximum level value to the local display and system software and alerts operators
- V1, MODBUS RS-485, and HART protocols
- Wetted parts are completely separated from the electronic circuit
- FM, ATEX and IEC Ex, and NEPSI approval for use in hazardous areas
- NMI, OIML and PTB approved for custody transfer applications
- SIL2 certified for overfill prevention

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