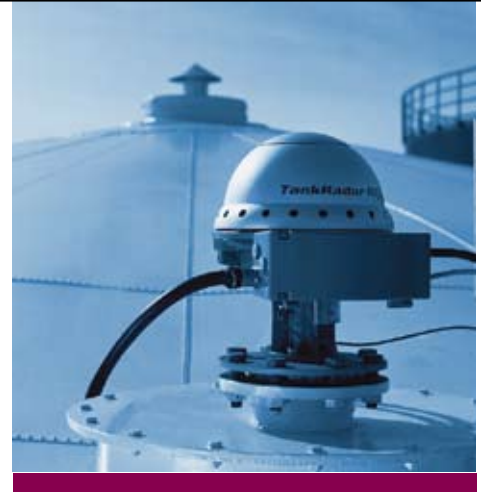


Rosemount TankRadar Rex fits directly into your existing GPE® system

BENEFITS

- Direct GPE Bus Compatible
- Emulates GPE 31422 or GPE 31423 transmitters
- Digital 20 mA current loop communication or RS485
- Analog 4-20 mA input
- Proven performance worldwide
- Future safe - Easy upgrade to other fieldbuses
- Highest reliability - maintenance free



Emulation with Rosemount TankRadar Rex

Emulation means open interface. The open interface design concept covers everything from electrical interface and communication protocol to utilization of existing power sources. This connectivity will make it easy to incorporate reliable, state of the art precision radar gauges in field bus systems from other vendors.

Rosemount TankRadar Rex is an inventory and custody transfer radar level gauge for storage tanks. It is designed to fit into existing tank gauging systems. TankRadar Rex gauges provide outstanding reliability and SIL2 safety functions using non-contact radar measurement with no moving parts. Only the antenna is inside the tank atmosphere. These features makes the TankRadar Rex a flexible, user-friendly and cost saving plug-n-gauge device.

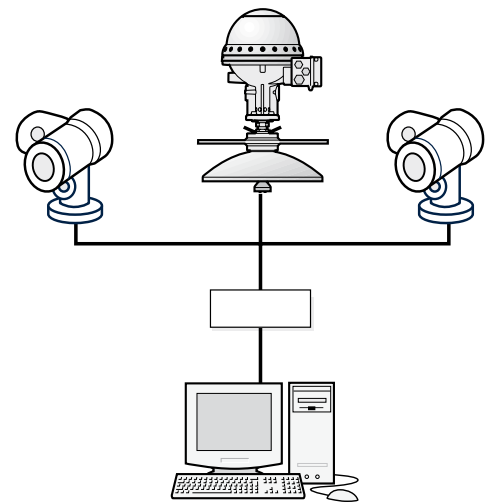
GPE® digital current loop or RS485

TankRadar Rex has the ability to connect directly to the GPE digital current loop or to a GPE system using RS485. This means that it is possible to replace the GPE transmitter with a TankRadar Rex gauge with great ease.

TankRadar Rex will communicate using the GPE protocol, just like any GPE transmitter on the bus. TankRadar Rex communicates using the existing wires. Rex uses a separate power supply.

TankRadar Rex will provide status, level, temperature and analog input values to the GPE system. The tank data from TankRadar Rex is presented on the existing inventory control system.

Note also that L&J transmitters sometimes use GPE communication protocol.



TankRadar Rex emulates the existing mechanical gauges using the same digital current loop as they do.

Installation

TankRadar Rex is easily installed and no special tools are required. All parts can be carried onto the tank roof. Installation can be done with the tank in service. No hot work is required. The electrical installation is done using the existing GPE tank wiring.

Temperature sensors are connected directly to the Rex head or to a Data Acquisition Unit. Analog input connections are directly connected to the Rex head. Existing RTD temperature sensors can be used. TankRadar Rex has built-in lightning protection and power surge suppression. Rex fits most manways or still pipes.

Configuration

TankRadar Rex is configured with the TankMaster WinSetup program. Configuration is done with a Field Bus Modem (FBM), using existing or additional wiring.

Specification TankRadar Rex - GPE digital current loop	
Protocol	GPE 31422, GPE 31423
Communication	GPE 20 mA digital current loop or RS485
Data rate	300 baud (supports baud rates between 150-2400 baud)
Configuration	Win Setup
Configuration modem	Field Bus Modem, FBM 2180
Rex power supply	100-240 VAC, 34-70 VAC, 48-100 VDC
Transmitter compatibility	GPE 31422, GPE 31423
Temperature input	Compatible with standard RTD. Direct Rex input. Data Acquisition Unit (DAU)
Water bottom sensor	Any 4-20 mA device. Water Bottom Sensor Integrated
Pressure input	4-20mA
Accuracy approval	TankRadar Rex meets or exceeds industry standards for custody transfer

Technical details are subject to change without prior notice. For more technical details, see the Rex Technical Description.

*GPE is a trademark of GPE