

# Rosemount TankRadar Rex fits directly into your existing Varec® system

## BENEFITS

- Direct Varec® Mark / Space bus compatible
- Adapts to all baud rates
- Emulates 1800 & 1900 protocol
- Easy upgrade to other field buses
- Configuration on existing wires
- 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.

## Varec® Mark/Space

TankRadar Rex has the ability to connect directly to a Varec Mark/Space Field Bus. This means that it is possible to replace a Varec servo with a Rosemount radar gauge with great ease.

TankRadar Rex will communicate using the Varec Mark/Space interface. This means that it can emulate and replace all Varec transmitters and servo gauges using the Mark/Space 1800 or 1900 protocol.

The power supply in TankRadar Rex can be made to fit most existing AC and DC power sources. Configuration of TankRadar Rex is done using the existing or additional tank wiring.

TankRadar Rex will provide status, level, temperature, pressure and other input values to the Varec system. The tank data from TankRadar Rex is presented on a Fuels Manager inventory control system or similar.

## Installation

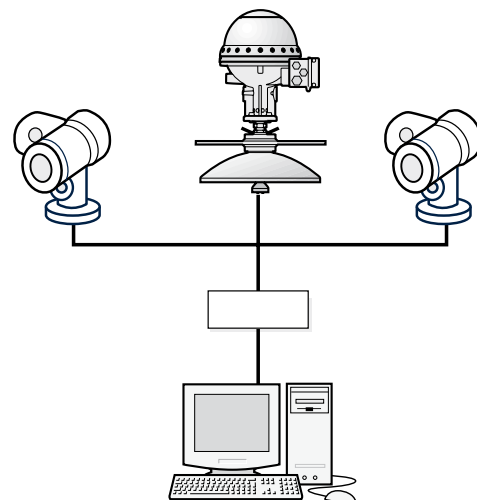
Rosemount TankRadar Rex is easily installed and no special tools are required. All parts can be carried onto the tank roof. Installation can be done with the tank in service. No hot work is required. The electrical installation is done using the existing Varec tank wiring.

Temperature sensors are connected directly to the Rex head or to a Data Acquisition Unit.

Existing RTD temperature sensors can be used. TankRadar Rex has built-in lightning protection and power surge suppression. TankRadar Rex fits most manways or still pipes.

## Configuration

TankRadar Rex is configured with the TankMaster WinSetup program. The configuration PC is connected to the Varec gauge with a FBM (Field Bus Modem). The FBM is connected to the Rex gauge using existing or additional tank wiring.



The Rex gauge emulates the existing mechanical gauges using the same field bus.

Specification TankRadar Rex - Varec Field Bus connection	
<b>Communication</b>	Mark/Space
<b>Data rate</b>	70-250 baud
<b>Communication master</b>	Varec 6820 TSU, 6840 TPU, 8130 RTU or equal
<b>Readout systems</b>	Varec Tank View, Varec System IV, Fuels Manager or equal
<b>Configuration</b>	Win Setup
<b>Configuration modem</b>	Field Bus Modem (FBM)
<b>Rex power supply</b>	100-240 VAC, 34-70 VAC, 48-100 VDC
<b>Gauge compatibility</b>	All Varec Mark/Space (1800 or 1900 protocol) compatible gauges
<b>Temperature input</b>	Compatible with standard RTD. Direct Rex input or Data Acquisition Unit (DAU)
<b>Accuracy approval</b>	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.

\*Varec, Mark/Space, Varec Tank View and Fuels Manager are trademarks of Varec and Endress & Hauser (International) Holding AG.