

Rosemount TankRadar Rex fits directly into your existing Enraf® system

BENEFITS

- Direct Enraf Bus compatible
- Direct Enraf power compatible
- Emulates 811, 813 & 854 Servo
- Emulates 872 & 873 Radar
- Bi-Phase Mark communication
- Configuration over the field bus
- Future proof - Easy upgrade to other field buses
- Proven performance worldwide
- 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.

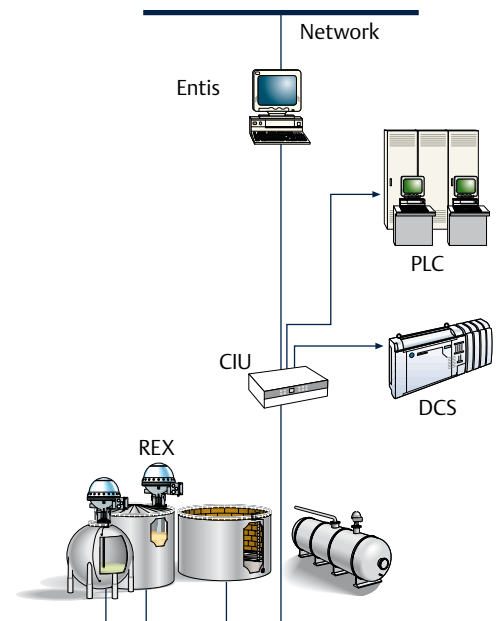
Rosemount TankRadar Rex is an inventory and custody transfer radar level gauge for storage tanks. It is designed to fit into existing tank gauging systems. TankRadar Rex gauges provide outstanding reliability and SIL2 safety functions using non-contact radar measurement with no moving parts. Only the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

Enraf® field bus

TankRadar Rex has the ability to connect directly to an Enraf field bus. This means it is possible to replace an Enraf Servo or Radar gauge with a TankRadar Gauge with great ease.

The TankRadar Rex will talk Enraf GPU protocol/Bi-Phase Mark communication just like any Enraf unit on the bus. The power supply on the Rex can be made to fit the existing voltage available on the tank. No extra wiring is required.

Configuration of the TankRadar Rex is done at any suitable node on the field bus. The TankRadar Rex will provide status, level, temperature, pressure and other input values to the Enraf system. The tank data from the Rex is presented on Enraf Microlect*, Entis* or Entis PRO* readout systems.



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 Enraf tank wiring.

Temperature sensors are connected directly to the Rex head or to a Data Acquisition Unit. Relay wiring and analog input connections are terminated at the Rex head. Existing Enraf TPU units can also be used. TankRadar Rex has built in lightning protection and power surge suppression. The Rex gauge fits most manways or still pipes.

Configuration

The Rex is configured with the WinSetup program. The configuration PC is connected to the Enraf field bus with an EBM (Enraf field Bus Modem). This EBM is connected to the Enraf Field Bus at any convenient location.



Installation of TankRadar Rex with the tank in service.

Specification TankRadar REX - Enraf Field Bus Connection	
Protocol	Enraf GPU
Communication	Bi-Phase Mark
Data Rate	1200 or 2400 Baud
Communication Master	Enraf CIU, Microlect
Readout systems	Microlect, Entis, Entis Pro
Configuration	Win Setup
Configuration modem	Enraf field Bus Modem (EBM)
Rex power supply	100-240 VAC, 34-70 VAC, 48 - 100 VDC
Gauge Compability	811, 813, 854, 872, 873
Temperature input	Compatible with Enraf 877 TPU, direct REX input or Data Aquisition Unit (DAU)
Water level sensor	Water Level Sensor (WLS), 4-20mA, HART
Pressure input	4-20 mA, HART
Accuracy approval	Rex to Enraf connections are approved by the PTB for custody transfer. TankRadar Rex meets or exceeds all industry standards for custody transfer.

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

**Enraf, CIU, Entis, PRO & Microlect are trade marks of Enraf B.V.*

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