

## Saab TankRadar® REX

# Saab open system solutions - L&J



**Saab TankRadar Rex is designed with an open interface to fit into existing tank gauging systems. This connectivity will make it easy to incorporate reliable, state of the art precision radar gauges in field bus systems of other makes. The Saab Open Interface design concept covers everything from electrical interface and communication protocol to utilization of existing power sources. These features makes the Saab TankRadar Rex a flexible, user friendly and cost saving Plug-n-Gauge device.**

### L&J field bus

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

The TankRadar Rex emulates the L&J I500XL Servo Gauge. The Rex will communicate using the L&J TankWay\* protocol and transmit tank data to the MCG 3200 Field Interface Unit just like any other L&J tank gauge on the bus. The power supply on the Rex can be made to fit most existing AC power sources, see the technical specification on the next page. Configuration of the Saab TankRadar Rex is done using the existing tank wiring.

The Saab TankRadar Rex will provide status, level, temperature, pressure and other input values to the L&J system.

The tank data from the Rex is presented on an L&J MCG-3800 Inventory Control System or similar.

### Features

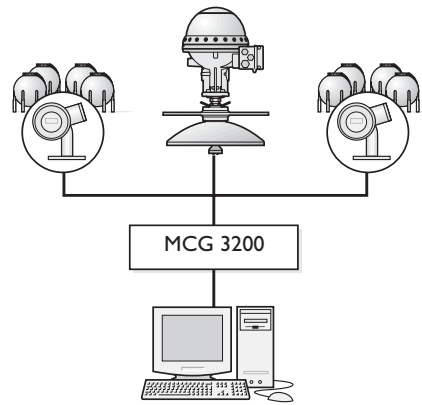
- Direct TankWay\* connection
- AC power compatible
- Emulates MCG-I500XL Servo
- Emulates MCG-2000 Encoder
- Emulates MCG-I600 Radar
- Standard L&J TankWay protocol
- Adapts to all Baud Rates
- Level
- Temperature
- Pressure input
- Relay control
- Status
- Configuration on existing wires
- Proven performance
- Easy upgrade to other field buses



### Installation

The electrical installation is done using the existing L&J 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 RTD Temperature sensors can be used. Saab TankRadar Rex has built in lightning protection and power surge suppression. The Rex fits most manways or still pipes.



### Configuration

The Rex is configured with the TankMaster WinSetup program. The configuration PC is connected to the L&J TankWay with a FBM (Field Bus Modem). The FBM is connected to the Rex gauge using existing tank wiring at any suitable point.

Specification Saab TankRadar Rex - L&J Field Bus Connection	
<b>Protocol</b>	L&J TankWay
<b>Communication</b>	L&J TankWay
<b>Data rate</b>	300 to 4800 Baud
<b>Communication Master</b>	L&J MCG 3200
<b>Readout systems</b>	MCG-3800, MCG-3900 or similar
<b>Configuration</b>	Saab WinSetup
<b>Configuration modem</b>	Saab FBM
<b>Rex power supply</b>	100 - 240 VAC 34 - 70 VAC 48 - 100 VDC
<b>Gauge compatibility</b>	MCG- 1500XL MCG- 1600 MCG 2000
<b>Temperature input</b>	- Compatible with standard RTD - Direct Rex input - Saab S-DAU
<b>Water bottom sensor</b>	Any 4-20 mA or HART device. Saab WBSi
<b>Pressure input</b>	4-20 mA HART
<b>Accuracy approval</b>	Saab TankRadar Rex meets or exceeds all industry standards for custody transfer.

\* L&J, TankWay are trademarks of L&J.

Quality and environmental system certified by DNV - ISO 9001 - ISO 14001

Your local representative:

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**Tank Control**