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PRODUCT DATASHEET

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PRODUCT INFORMATION

Saab TankRadar®

Remote Display Unit RDU 40 & 2210 DU

The display unit is available in two versions; RDU 40 for use with TankRadar Rex and 2210 DU for TankRadar Pro.

Its robust design makes it withstand many years of outdoor use under harsh environmental conditions.

The display functions are software controlled and interacts with the connected TankRadar gauge.

It is easy to work with via the 4-key display keyboard.

The functionality can be customized to meet the specific requirements from the users of TankRadar Pro and TankRadar Rex.

Features

- Remote read-out
- 100 m (328 ft) distance
- Easy to use
- Easy to install
- Robust, weather/dirt protection
- Excellent readability
- Provides temperature inputs for TankRadar Pro

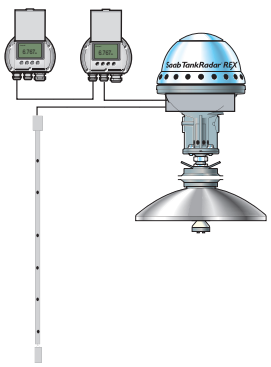
RDU 40 for Saab TankRadar Rex

The RDU 40 is remotely mounted, connected by a 3-wire cable. Up to two units can be connected to one TankRadar Rex.

It can display calculated data, such as level, average temperature, volume, signal strength, etc.

The operator can set up a user-defined window where the most useful information is presented. This window will be shown as the default view.

The RDU 40 can view up to six spot temp elements connected to TankRadar Rex.

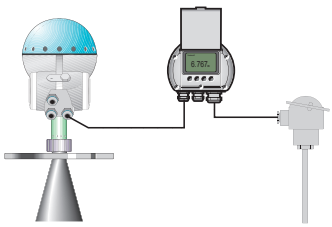


2210 DU for Saab TankRadar Pro

The 2210 DU can be remotely mounted, connected by a 4-wire cable, or factory mounted at the TankRadar Pro's enclosure. If remotely mounted, up to six PT100 elements can be connected to the optional temperature measurement card in the 2210 DU.

The TankRadar Pro is fully configurable from the 2210 DU. User-friendly menus and an installation wizard will guide through the complete start-up procedure.

All measured and calculated values such as level, spot temperature, volume, signal strength etc are displayed as numeric values or shown as bargraphs. A user-defined window can be set up by the operator.



Specification Remote Display Unit		
View/Software:	**RDU 40** (for TankRadar Rex)	**2210 DU** (for TankRadar Pro)
Available data	Level, ullage, volume, level rate, signal strength, average temperature	Level, ullage, volume, level rate, signal strength, spot temperature
Configuration of RTG from display	No	Yes
Display: single view	Easy readable with character size 25 mm (1 inch)	Easy readable with character size 25 mm (1 inch)
Display: standard view	Maximum 7 text lines, 16 characters/line can be displayed in each screen view	Maximum 7 text lines, 16 characters/line can be displayed in each screen view
Display: user-defined view	The customer can set up a view where the most useful information is scrolled.	The customer can set up a view where the most useful information is scrolled.
Electrical:	**RDU 40** (for TankRadar Rex)	**2210 DU** (for TankRadar Pro)
Display type	Graphic LCD display 128 x 64 pixels	Graphic LCD display 128 x 64 pixels
Ambient temperature	-20 to 55° C (-4 to 130° F)	-20 to 55° C (-4 to 130° F)
Ex class	ATEX: II 2 (I) G, EEx ib IIC T4 FM: Intrinsically safe, Class 1, Div 1, Group A, B, C, D	ATEX: II 2 (I) G, EEx ib [ia] IIC T4 FM: Intrinsically safe, Class 1, Div 1, Group A, B, C, D
Max cable length	100 m (328 ft) (total length if two units are connected to the same gauge)	100 m (328 ft)
Cable requirement	3-wire, shielded instrument cable min 0.5 mm² (AWG 20) max 2.5 mm² (AWG 14) Max Ø 14 mm (0.55 inch) Min insulation thickness for each wire 0.25 mm (0.00985 inch)	4-wire, shielded instrument cable Min 0.5 mm² (AWG 20) Max 2.5 mm² (AWG 14) Max Ø 14 mm (0.55 inch) Min insulation thickness for each wire 0.25 mm (0.00985 inch)
Temperature option:	**RDU 40** (for TankRadar Rex)	**2210 DU** (for TankRadar Pro)
Measuring range	Not applicable! Temperature elements connected directly to TankRadar Rex. See separate specification.	-50 to 250° C (-58 to 480° F)
Number of elements		3 x 3 wire PT100 spot or 6 x PT100 spot with commun return
Ex class		Cenelec: Ex ia IIC T4
Ambient temperature		-40 to 70° C (-40 to 158° F)
Accuracy		± 0.5° C
Resolution		0.1° C
Cable requirement		Shielded instrument cable Min 0.5 mm² (AWG 20) Max 2.5 mm² (AWG 14) Max Ø 18 mm (0.7 inch) Min insulation thickness for each wire 0.25 mm (0.00985 inch)
Mechanical:	**RDU 40** (for TankRadar Rex)	**2210 DU** (for TankRadar Pro)
Material housing	Die-cast aluminium	Die-cast aluminium
Dimensions	150 x 120 x 70 mm (6 x 4 x 3 inch)	150 x 120 x 70 mm (6 x 4 x 3 inch)
Weight	1.2 kg (2.6 lb)	1.2 kg (2.6 lb)
Cable entry	2 x M20, 1 x M25 Optional: ½ inch NPT and ¾ inch NPT by external adapters	2 x M20, 1 x M25 Optional: ½ inch NPT and ¾ inch NPT by external adapters
Protection class	IP 67, NEMA 4	IP 67, NEMA 4
Weather/dirt protection lid	Included	Included

Emerson Process Management

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