

## Saab TankRadar<sup>®</sup> PRO

# The ultimate radar level gauge



**Saab TankRadar PRO is the ultimate radar level gauge with excellent reliability in a wide range of applications. Its high performance and maintenance free operation make it a highly economical solution. It is easy to install and highly flexible through interchangeable gauge heads and antennas.**

**Configuration of the radar level gauge is easily performed via the RadarMaster or TankMaster software or via a display unit.**

**Saab TankRadar PRO offers high accuracy level measurement in applications such as chemical and petrochemical storage tanks, pharmaceutical plants and tank terminals.**



### Suitable for

- Storage tanks
- Chemical & petrochemical industry
- Pharmaceutical plants
- Pipeline terminals
- Refineries
- Cement, powder, wood chips and other solid material applications

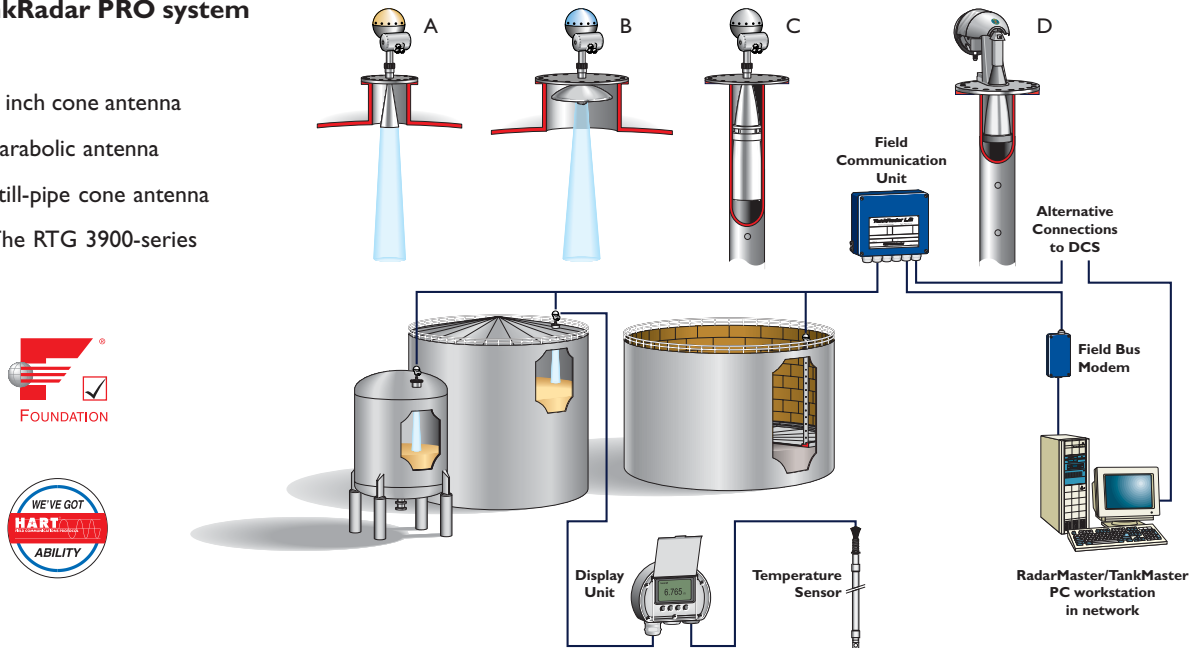
### Features

- Excellent reliability
- No maintenance
- Easy installation
- Accuracy  $\pm 3, 5$  or  $10$  mm depending on model
- No moving parts and non-contact level measuring
- Optional temperature measurement
- Interactive setup using Windows based software or via gauge-mounted or remote display unit
- High sensitivity for detection of weak echoes in solid applications and from turbulent surfaces
- Analog  $4-20$  mA superimposed with HART<sup>®</sup>, and digital Profibus<sup>®</sup> DP, FOUNDATION<sup>™</sup> fieldbus or TRL/2 bus outputs

Specifications	
<b>Operating principle</b>	10 GHz FMCW-radar
<b>Instrument accuracy</b>	±3 mm (±0.12 in.), ±5 mm (±0.2 in.) or ±10 mm (±0.4 in.) depending on model
<b>Power supply</b>	Ultra wide 24-240V DC or AC 0-60 Hz
<b>Display/configuration</b>	Local display, remote display, RadarMaster PC software
<b>Primary output</b>	Saab TRL/2 bus (FSK with Modbus protocol) or Profibus® DP, analog 4-20 mA, active or passive + digital HART®, FOUNDATION™ fieldbus
<b>Secondary output</b>	Analog 4-20 mA current loop, active or passive
<b>Temperature measurement</b>	Up to 6 spot elements per tank with common return, PT100 via display unit
<b>Tank connection</b>	Ø 2 to 20 in.
<b>Antennas</b>	Cone, parabolic, process seal and still-pipe cone
<b>Antenna materials wetted parts</b>	Stainless steel SS 316L, PTFE, Quartz, Viton, Kalrez
<b>Tank temperature</b>	-40 to 400 °C (-40 to 752 °F)
<b>Ambient temperature</b>	-40 to 70 °C (-40 to 158 °F)
<b>Measuring range</b>	0-50 m (0-165 ft) default, 0-99 m (0-325 ft) special configuration
<b>Ex approval</b>	ATEX/CENELEC: Ⓜ II I/2G / EEx de [ib/ia] IIC T6 FM: Explosion proof Class I, Div. 1 & 2, Groups A, B, C and D. CSA: EEx de IIC T6. FTZU: EEx de ib IIC T6. GOST: EEx de ib [ia/ib] IIC T4.
<b>Weight</b>	8 kg (18 lbs.)

**Saab TankRadar PRO system**

- A: 8 inch cone antenna
- B: Parabolic antenna
- C: Still-pipe cone antenna
- D: The RTG 3900-series



**Emerson Process Management**

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