**PRODUCT INFORMATION**

**Saab TankRadar® PRO**

The ultimate radar level gauge

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**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.

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**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.

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**Features**

- Excellent reliability
- No maintenance
- Easy installation
- Accuracy ±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®, and digital Profibus® DP, FOUNDATION™ fieldbus or TRL/2 bus outputs

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**Suitable for**

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

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"Profibus® DP" and "FOUNDATION™ fieldbus" are trademarks of Siemens AG. Saab AB is not legally responsible for the accuracy or relevance of the information provided by the product.

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## Saab TankRadar PRO system

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

### Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
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<tbody>
<tr>
<td><strong>Operating principle</strong></td>
<td>10 GHz FMCW-radar</td>
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<tr>
<td><strong>Instrument accuracy</strong></td>
<td>±3 mm (±0.12 in.), ±5 mm (±0.2 in.) or ±10 mm (±0.4 in.) depending on model</td>
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<tr>
<td><strong>Power supply</strong></td>
<td>Ultra wide 24-240 V DC or AC 0-60 Hz</td>
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<tr>
<td><strong>Display/configuration</strong></td>
<td>Local display, remote display, RadarMaster PC software</td>
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<tr>
<td><strong>Primary output</strong></td>
<td>Saab TRU2 bus (FSK with Modbus protocol) or Profibus® DP, analog 4-20 mA, active or passive + digital HART®, FOUNDATION™ fieldbus</td>
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<td><strong>Secondary output</strong></td>
<td>Analog 4-20 mA current loop, active or passive</td>
</tr>
<tr>
<td><strong>Temperature measurement</strong></td>
<td>Up to 6 spot elements per tank with common return, PT100 via display unit</td>
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<tr>
<td><strong>Tank connection</strong></td>
<td>Ø 2 to 20 in.</td>
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<tr>
<td><strong>Antennas</strong></td>
<td>Cone, parabolic, process seal and still-pipe cone</td>
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<tr>
<td><strong>Antenna materials wetted parts</strong></td>
<td>Stainless steel SS 316L, PTFE, Quartz, Viton, Kalrez</td>
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<tr>
<td><strong>Tank temperature</strong></td>
<td>-40 to 400 °C (-40 to 752 °F)</td>
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<tr>
<td><strong>Ambient temperature</strong></td>
<td>-40 to 70 °C (-40 to 158 °F)</td>
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<tr>
<td><strong>Measuring range</strong></td>
<td>0-50 m (0-165 ft) default, 0-99 m (0-325 ft) special configuration</td>
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| **Ex approval**                              | ATEX/CENELEC: II II2G / EEx de [ib/ia] IICT6  
FM: Explosion proof Class I, Div. 1 & 2, Groups A, B, C and D.  
CSA: EEx de IICT6.  
FTZU: EEx de ib IICT6.  
GOST: EEx de ib [ia/ib] IICT4. |
| **Weight**                                   | 8 kg (18 lbs.) |