



**HIGH ACCURACY**

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## PRODUCT DATASHEET

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# Rosemount OTG 51

## Overfill Alarm Radar Gauge, Still Pipe Antenna



**Rosemount OTG 51 Overfill Alarm Radar Gauge, Still Pipe Antenna is a high level and overfill alarm gauge that acts as a centerpiece for the Rosemount OFC system.**

- Ideal solution for reliable high level and overfill measurements on liquefied gas tanks
- High level and overfill measurement channels integrated in one single unit
- An integrated part of the Rosemount OFC system
- Meets requirements for all major marine classification societies

## Description

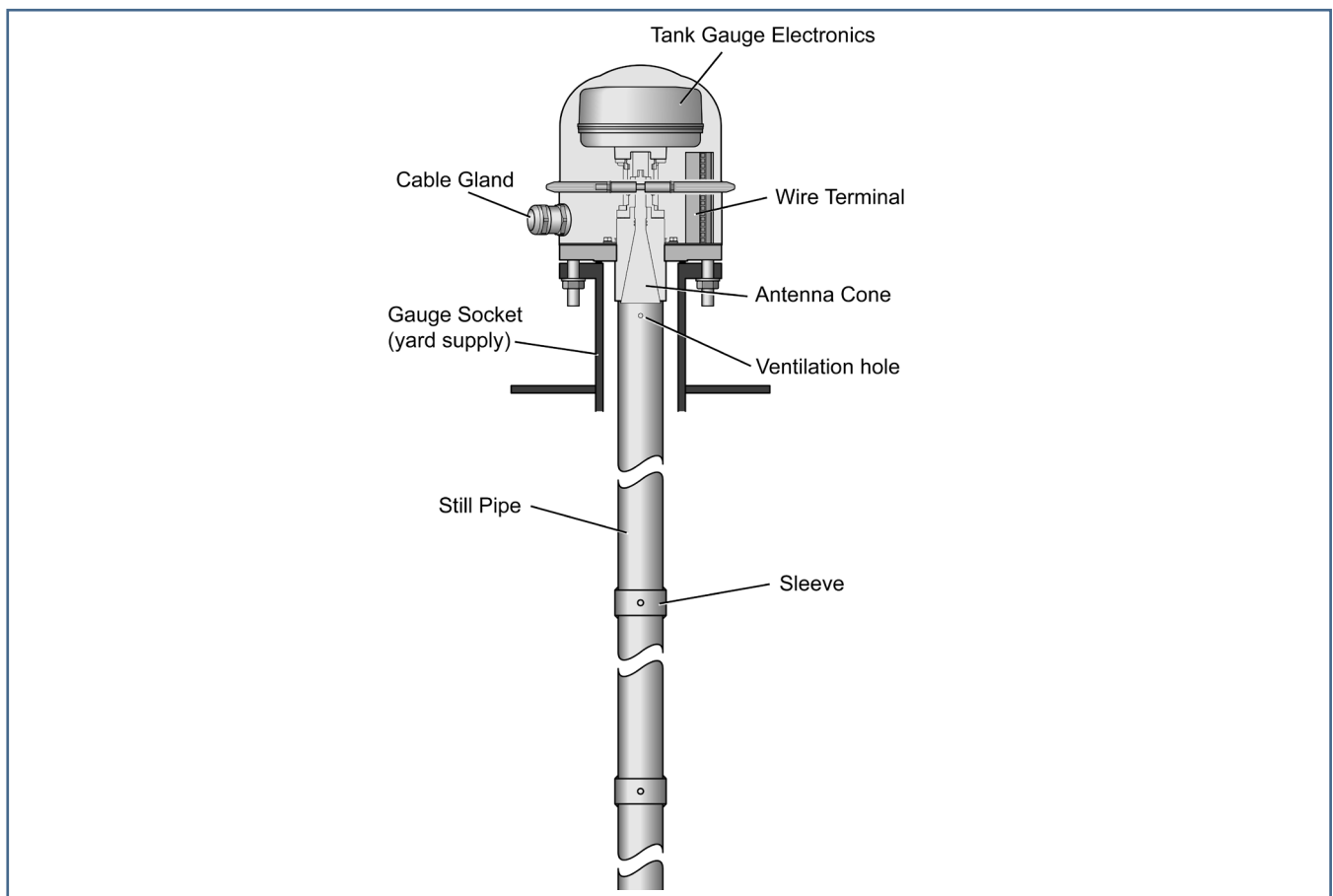
The Rosemount OTG 51 Overfill Alarm Radar Gauge is suited for installation on LNG and LPG tanks. The unit is equipped with a cone antenna and measures the level of the liquefied gas in the still pipe. The still pipe acts as a waveguide, guiding the radar waves to the liquid surface and back up to the electronics.

The intrinsically safe gauge comprises the antenna with a sensor that transmit, and receive, radar signals. The gauge can be equipped with up to two modules, one module per level alarm channel. The electrical parts in each module are separated (galvanically isolated) from each other. Each module processes the signals independently from each other and hence the high level and overfill alarm functions are integrated in one single unit, yet functionally separated. This intelligent and autonomous gauge sends the processed data to the Rosemount OCA 51 Overfill Alarm Cabinet to be displayed on the alarm panel.


### Still Pipe and in-tank Installation

The complete assembly consists of the OTG 51 and a still pipe segment with an ventilation hole. The still pipe is supported by support brackets to an internal structure, e.g. pipe tower platforms, or alternatively with fingersprings in a protective pipe.

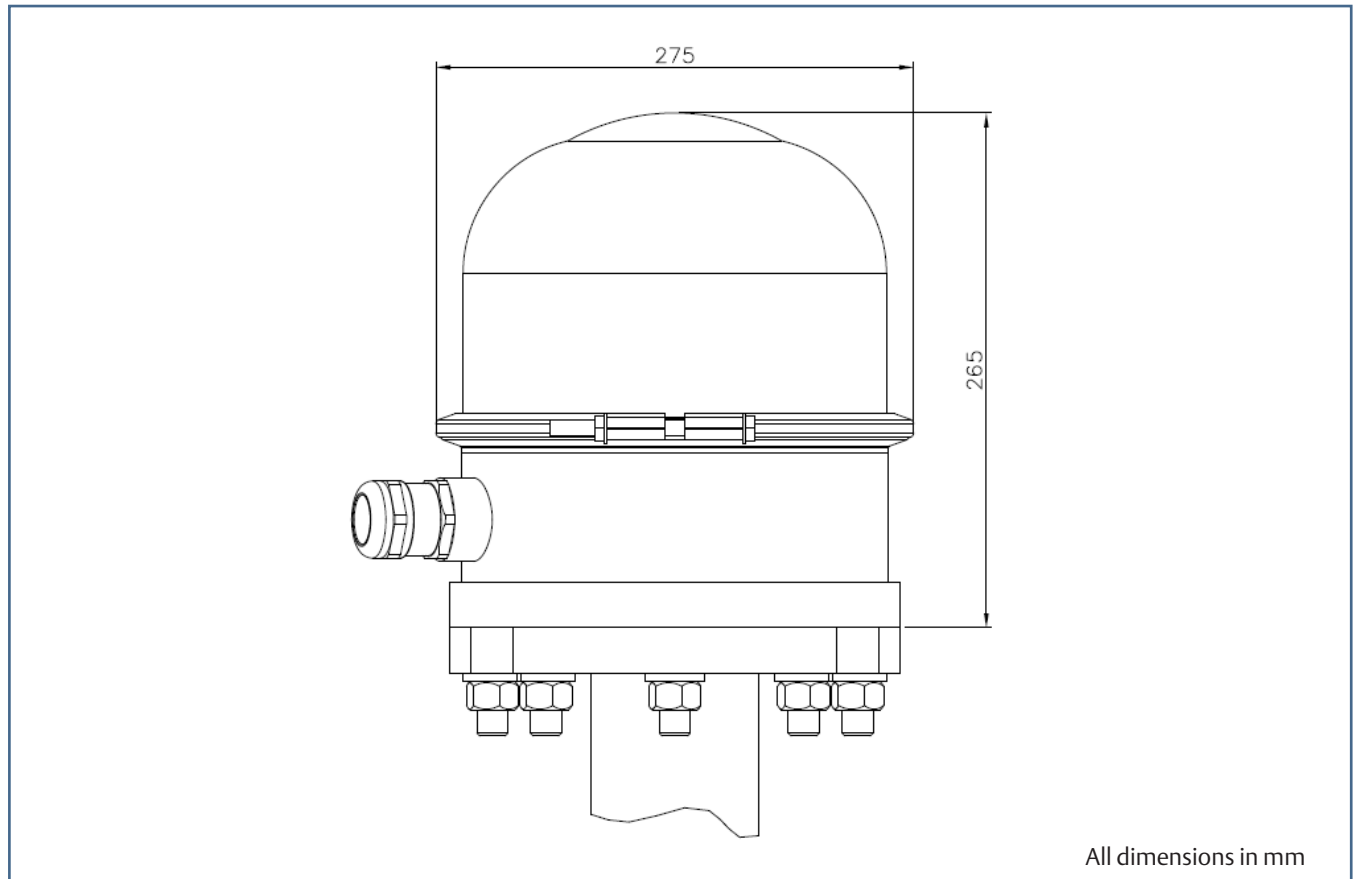
## Tank Installation Overview



# Technical Specification

Product Name	
<b>General Specification</b>	
Antenna type	Cone antenna with Still Pipe
Product range	Liquefied gases
Measuring range	max. 15 m to alarm point
Instrument accuracy	± 3 mm
Number of radar channels	One or two
FMCW centre frequency	10 GHz
Operating temperature, tank	-170 C to +100 °C
Operating pressure, tank	-0.2 to 8 Bar
<b>Electrical Specification</b>	
Cable to control room	Up to 2 cables, 2x2 twisted wire cable with common shield to each measurement channel
Number of cable inlets	1 to 2
Cable diameters	6 to 21mm
Field bus	Proprietary intrinsically safe
Microwave output power	<1 mW
<b>Mechanical Specification</b>	
Weight	20 kg (gauge socket excluded)
Material facing tank atmosphere	Stainless steel 304L, PTFE
Material facing deck	Stainless steel 316L
Process connection	ANSI 3" (standard) ANSI 6", DN80, JIS5 (optional)
Still pipe dimension	2"
<b>Environment Specification</b>	
Ingress protection	IP56
Ambient temperature	-40 to +70 °C
<b>Approvals</b>	
Marine type approvals	ABS, BV, CCS, DNV-GL, KR, LR, NK, RINA
Explosion protection	Intrinsically safe:
	ATEX:  II 1G Ex ia IIC T4 Ga IECEx: Ex ia IIC T4 Ga

## Dimensional Drawings



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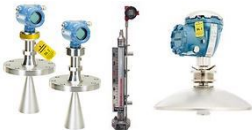










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# HIGH ACCURACY

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	<p>Liquid Analysis</p>		<p>Flame and Gas Detection</p>
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	<p>Acoustic &amp; Discrete</p>		

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