

Radar Level Gauges

Level gauge for small and large height tank



- ✓ Valid for fluids and granular solids
- ✓ High accuracy of ± 2 mm and wide range of measure up to 50 m in height
- ✓ Communication to DieselPlus Cloud software

Radar level gauges

The radar level gauge measures accurately fluids and granular solids in tanks up to 50 m in height.

Description

- › The GESPASA Radar Gauge is a high frequency (80 GHz) radar level transmitter designed for continuous level measurement in tanks of liquid, granular or powdered solids and open water applications. It combines accuracy, durability and versatility, making it an ideal solution for a wide range of industries.
- › Available in both display and non-display versions.
- › You can connect the gauge to your reading and control devices using a 4-20 mA/RS485 (Modbus - RTU)/Hart connection, or you can connect the gauge to GESPASA TANK MODEM PLUS to automatically transmit the data to the software www.dieselpius.net or to the APP 'DieselPlus tanks'.

Application

- › Level measurement in tanks, open water, all types of liquids and granular or powdered solids such as cement, feed, grain, etc.
- › Connection to external devices such as PLC, SCADA, display via 4-20 mA/RS485 (Modbus - RTU)/Hart connection.
- › Telematic sending of readings to cloud software by connecting to the TANK MODEM PLUS, with API available to send readings to any external software.
- › The probe can be configured using the www.dieselpius.net software, the probe keypad or the Bluetooth application.

Function

- › The instrument emits a continuous radar signal through its antenna. The transmitted signal is reflected by the product and received by the antenna as an echo.
- › The frequency difference between the transmitted signal and the received signal is proportional to the distance and depends on the level. The detected level is converted into a corresponding output signal and output as a measured value.



Radar level gauges

Technical features

Measuring range	up to 50 m (depending on model)
Measuring deviation	±2 mm liquids
	±5 mm solids
Beam angle	3.5°
Measuring frequency	77 GHz - 81 GHz
Output signal	4-20 mA / RS485 (Modbus- RTU) / Hart
Data protocol	two-thread Modbus
Voltage	2 cables of 24 VDC (22 V - 30 V)
Thread (antenna)	M2" BSP
Process and ambient temperature	-20 °C / +70 °C <i>*Consult options for 200 °C</i>
Antenna material	display version: 304 stainless steel / PTFE
	without display version: 304 stainless steel / PP
Body material	display version: Aluminium
	without display version: Stainless steel
Process pressure	Atmospheric pressure
Protection rating	IP-67

Tank Modem Plus Kit

TANK MODEM PLUS KIT (ANTENNA + SUPPORT + SIM) · 110/230 V	258000000
TANK MODEM PLUS KIT (ANTENNA + SUPPORT + SIM) · 12/24 V	258000100

Optional

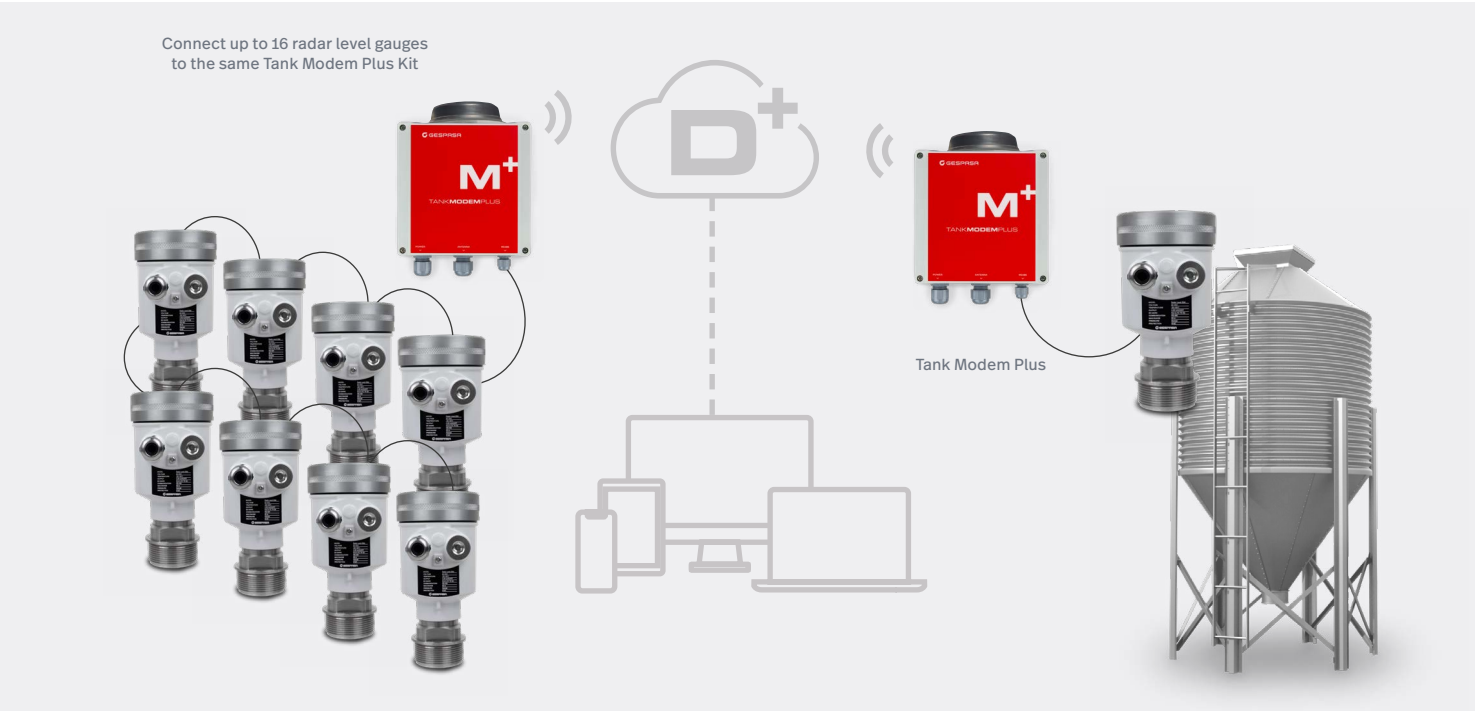
485/USB CABLE CONVERTER*	251208032
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**Required to configure the modem locally (no remote connection) in countries where remote communication is not available. Please consult.*

Software Licence

Allows you to access and use the software.

TANK MODEM PLUS ANNUAL LICENCE	670800000
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DieselPlus

Cloud software for the management of supplies, users, vehicles and levels of your tanks

The new generation of On-Demand software (SaaS) for the fleet and supply management

DieselPlus is the 'on demand' cloud software that allows to check and manage of the data obtained by the Tank Modem Plus + Level gauge.

The software does not require of installation and you will be able to access from any device with Internet connection, from anywhere, anytime..

Main functionalities

APP. Check through the 'Dieselplus Tanks' App from your smartphone.

Automatic wireless communication. The dispensers with GK-7Plus controller are automatically communicated M2M with the DIESELPLUS servers. This communication is automatic without any user.

Multistation. One or more users can control different dispensers, which could be placed in different geographical zones and share or not users and vehicles.

Multiuser. The software can be used by different users at the same time. Each user will be able to access only to the areas that have been previously assigned to them. It can be established a hierarchical level of operators with different privileges and restricted accesses.

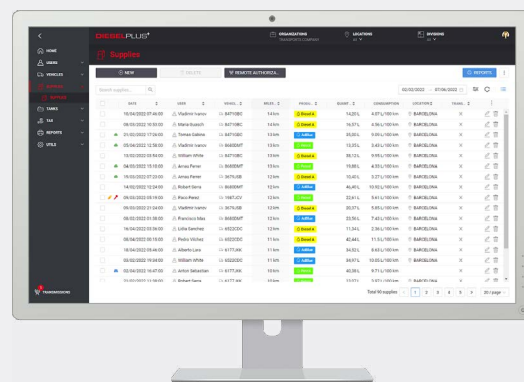
Multiaccess/multiinstallation. All the users who have user name and password can access the DIESELPLUS software from any computer connected to the Internet at any time. It is allowed to manage the information of many installations from the same operator.

Safe data. Any data is automatically communicated with the DieselPlus server.

Report issue. Lists and statistics for an easy interpretation of the information regarding to the alarms, levels, history and so on.

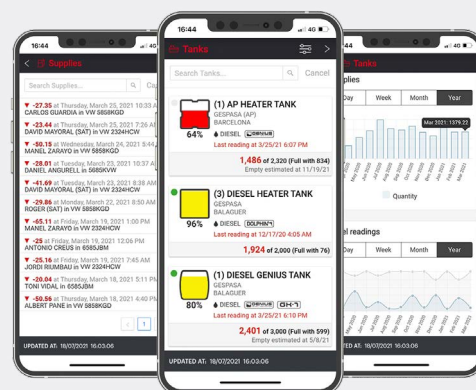
After-sales or technical service · E-mail or phone. Direct email or telephone number for the after-sales service in order to solve any doubt or incidence.

*More information about the software in the technical sheet: 'DieselPlus Software'.



DIESELPLUS⁺

-  **Automatic updates**
-  **Online assistance**
-  **Supply list**
-  **Level reading**
-  **Alarm configuration**
-  **History**
-  **Data export**



Available models

Radar level gauge with display for liquids

	Max. height	
Radar level gauge with display for liquids	20 m	808316059
Radar level gauge with display for liquids	50 m	808316060

Radar level gauge with display for liquids and solids

	Max. height	
Radar level gauge with display for liquids and solids	30 m	808316061

Radar level gauge without display for liquids and solids

	Max. height	
Radar level gauge without display for liquids and solids	30 m	808316068

Radar level gauge with flange and solid blower

	Max. height	
Radar level gauge with flange and solid blower	30 m	808316074

Accessories and optionals

F2" ALUMINIUM FLANGE (screw fixation)	-
F2" 90° SUPPORT	800404020
POWER SUPPLY · IN 100-240 VAC > OUT 24 VDC <i>Up to 10 level gauges can be connected to the same power supply</i>	802501010



Radar Level Gauge
with display



Radar Level Gauge
without display



Radar Level Gauge
with flange and solid blower



Accessory:
F2" aluminium flange
(screw fixation)



Accessory:
F2" 90° Support



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*Because of the constant innovations and development, TOT COMERCIAL SA reserves the right to modify their product specifications and publicity, without prior notification.