

# Level gauges

01 /  
Genius

P. 173 → DieselPlus  
Cloud Software

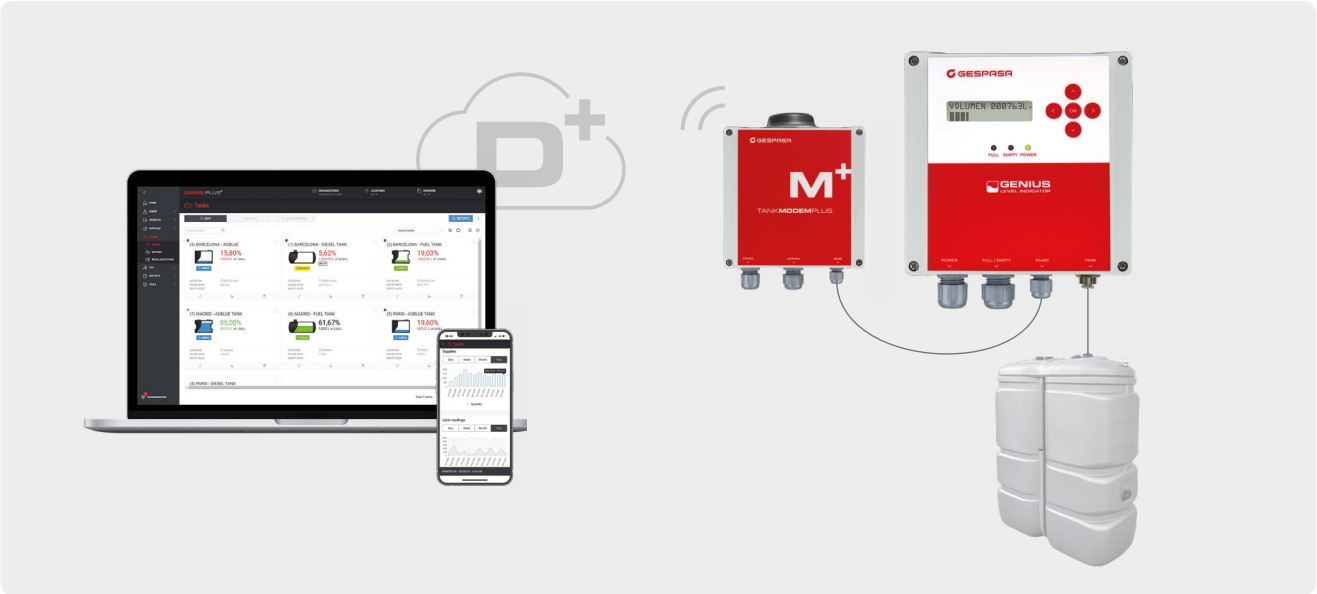
P. 177 → Tank Modem  
Plus Kit

Genius level indicator

GKSuite · DieselPlus

1% accuracy (in height)

Level monitor in atmospheric tanks. Suitable for liquid with a maximum viscosity of 30 cSt. The level measurement is made by measuring the static pressure of the liquid height through a tube into the tank.



TECHNICAL DATA

Accuracy:	1% (in height)
Resolution:	5 mm
Max. tank height:	4 m
Level reading:	in height (mm or inches) or volume (litres or gallons)
Protection:	IP-55
Power:	230 VAC · 110 VAC · 12-32 VDC
Communication to external device:	via MODBUS RTU
Connection to DieselPlus via RS-485 cable:	up to 16 Genius connected to the same Tank Modem Plus
Connection to GKSuite:	with a communication kit (USB cable, Ethernet cable, ZigBee-USB or ZigBee-Ethernet)

COMPONENTS

- › Control unit with LCD display and 5-key keyboard to access the kit menu
- › Indicator set with full tank alarm, empty tank alarm and power
- › 10 m of tube (extending at 50 m maximum) of Ø6 mm with Ø25 mm weight
- › Cable 230 VAC 50/60 Hz · 110 VAC · 15-32 VDC
- › Connection cable of the two outputs for full or overfilled tank alarm and empty or minimum level
- › RS-485 communication cable
- › Acoustic alarm in its inner of 90 dB and 2,400 Hz

Genius 15-32 VDC (suitable for diesel and other non-corrosive fluids)	25737-CF00003
Genius 110 VAC (suitable for diesel and other non-corrosive fluids)	25737-CF00006
Genius 230 VAC (suitable for diesel and other non-corrosive fluids)	25737-CF00000
Genius-Inox 230 VAC (suitable for AdBlue/DEF or Phytosanitary fluids)	25737-CF00002
Genius-Lube 230 VAC (suitable for lubricant with 30-1,000 cSt viscosity)	25737-CF00001

# 02 / Tank Modem Plus Kit

## Tank Modem Plus Kit

GPRS communication

automatic & wireless

Communication kit that connects the Genius level indicator and other compatible gauges with the DieselPlus cloud software. The communication with the software is automatic and wireless through GPRS communication.



- P. 173 → DieselPlus Cloud Software
- P. 176 → Genius level indicator
- P. 179 → ATG Ex level gauge
- P. 180 → Radar level gauge
- P. 181 → TLC-485
- P. 182 → TLC-Bluetooth Ex

**TECHNICAL DATA**  
**Voltage:** 230 VAC  
**Output for gauge connection:** RS485  
**Connection to DieselPlus via GPRS:** automatic and wireless communication

- COMPONENTS**
- › Antenna
  - › Support
  - › SIM (compatibility with your country should be checked)

- COMPATIBLE KITS**
- › Genius level indicator
  - › ATG Ex level gauge
  - › Radar level gauge
  - › TLC-485
  - › TLC-Bluetooth Ex
  - › Other popular gauge models

Tank Modem Plus Kit (antenna + support + SIM) · 110/230 V	258000000
Tank Modem Plus Kit (antenna + support + SIM) · 12/24 V	258000100
Tank Modem Plus software annual licence	670800000

Optional	
485/USB cable converter (required to configure the modem locally when remote communication is not possible)	251208032

# 03 / Dolphin

P. 173 → DieselPlus  
Cloud Software

## Dolphin gauge

- GPRS communication
- ±1% accuracy
- automatic & wireless

Level gauge that automatically measures the level fluid of your tank and automatically sends the data to the DieselPlus cloud software. Easy, quick and wireless installation thanks to its compact design and internal battery.



TECHNICAL DATA

Accuracy:	± 1% mm (in the level tank height)
Standard resolution:	5 mm
Measuring range:	100-4,000 mm
Reading frequency:	1 transmission per hour
Power supply:	3.6 V lithium battery
Protection:	IP-65
Working temperature:	-10 °C / +50 °C
Installation:	2" M thread or 4-screw fixation
Connection to DieselPlus via GPRS:	automatic and wireless communication
Dimensions (approx.):	100x100x215 mm
Weight (approx.):	0.4 kg

COMPONENTS

- › Internal lithium battery of easy user-replacement 4-year estimated life

GPRS Dolphin gauge	258200300
Dolphin DieselPlus annual licence	670800500

04 /  
ATG

ATG Ex level gauge

communication via RS-485 cable      ±0.5 mm accuracy

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Level gauge that detects the level of water and fuel. Suitable for all type of fuel without float change. Measurement by mangnetostrictive technology. It calculates the product level, the water presence and the product temperature.



TECHNICAL DATA

Accuracy:	±0.5 mm
Standard resolution:	±0.01 mm
Temperature accuracy:	± 0.5 °C
Power supply:	9-30 VDC (via an external power supply)
ATEX Category:	Ex db IIB T6 Ga/Gb · Ex tb IIIC T85 °C Db
Working temperature:	-20 °C / +60 °C
Connection:	2"
Measure range:	500 - 5,500 mm
Connection to DieselPlus via RS-485 cable:	up to 16 gauges connected to the same Tank Modem Plus

COMPONENTS

- › 1 fuel float
- › 1 water float
- › 2" riser or adjustable connection to the tank
- › Explosionproof stainless steel IP-68 rated case

ATG Exd level gauge (customised size)	
Tank Modem Plus Kit (antenna + support + SIM) · 110/230 V	258000000
Tank Modem Plus Kit (antenna + support + SIM) · 12/24 V	258000100
Tank Modem Plus software annual licence	670800000

Optional	
485/USB cable converter (required to configure the modem locally when remote communication is not possible)	251208032
Power supply IN 100-240 VAC* > OUT 12 VDC ( required to connect more than one gauge to the same modem)	802501004

# 05 / Radar level gauge

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## Radar level gauge

communication via RS-485 cable

±2 mm accuracy

Level gauge for large height tanks. Valid for fluids and granular solids. Ideal for level measurement in water treatment and for maintenance-free use on small bulk silos. Mesurement by radar signal.



### TECHNICAL DATA

Accuracy:	±2 mm
Measuring range:	up to 15 m
Voltage:	8-30 VDC
Protection:	IP-66 / IP-68
Ambient temperature:	-40 °C / +80 °C
Output signal:	digital signal according to EIA-485 normative
Data protocol:	2-thread Modbus
Bottom / top thread:	M1 ½" BSP / M1" BSP
Pressure:	-1 +3 bar
Connection to DieselPlus via RS-485 cable:	up to 16 gauges connected to the same Tank Modem Plus

### COMPONENTS

- › Gauge
- › 4-thread axial cable output

1 ½" 15 m · Radal level gauge	25834-CF00000
1 ½" · 15 m · ATEX Radar level gauge	25834-CF00002
Tank Modem Plus Kit (antenna + support + SIM) · 110/230 V	258000000
Tank Modem Plus Kit (antenna + support + SIM) · 12/24 V	258000100
Tank Modem Plus software annual licence	670800000

### Optional

485/USB cable converter (required to configure the modem locally when remote communication is not possible)	251208032
F1½" aluminium flange (screw fixation)	808316048
Power supply IN 100-240 VAC > OUT 12 VDC ( required to connect more than one gauge to the same modem)	802501004

# 06 / Tank Level Control

## TLC-485

communication via RS-485 cable

±0.2 - +1% accuracy

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Plus Kit

Level gauge for mobile or static tanks. Ideal for the measurement of the fuel volume in vehicle tanks or fixed installations. Its level sensor allows to determine the current volume and its changes.



TECHNICAL DATA

Accuracy fixed tanks or parked vehicles:	±0.2 %
Accuracy for vehicles in motion:	±1 %
Voltage:	10-45 V
Protection:	IP-55
Working temperature:	-30 °C / +80 °C
Overload protection:	up to 100 V
Connection to DieselPlus via RS-485 cable:	up to 4 gauges connected to the same Tank Modem Plus
Max. length pipe:	1,000 m
Weight (approx.):	1 kg (according to length)

COMPONENTS

- › Gauge with measuring pipe that can be shortened or extended
- › Assembly kit: fuses, joints, screws, connector, sealings to avoid the gauge manipulation, bottom spring and mesh filter

TLC-485 · Level Gauge · RS-485 · L = 1,000 mm	25830-CF00000
Tank Modem Plus Kit (antenna + support + SIM) · 110/230 V	258000000
Tank Modem Plus Kit (antenna + support + SIM) · 12/24 V	258000100
Tank Modem Plus software annual licence	670800000

Optional

TLC 1,000 mm · additional section	258308000
485/USB cable converter (required to configure the modem locally when remote communication is not possible)	251208032

06 /  
Tank Level  
Control

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Cloud Software  
  
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TLC-Bluetooth Ex

communication via Bluetooth

±0.2 - +1% accuracy

Level gauge for mobile or static tanks with ATEX certificate. Ideal for the measurement of the fuel volumen in vehicle tanks or fixed installations. Its level sensor allows to determine the current volume and its changes.



TECHNICAL DATA

Accuracy:	±0.2 %
Accuracy for vehicles in motion:	±1 %
Bluetooth sensor/receiver max. distance:	20 m
Protection:	IP-55
Working temperature:	-30 °C / +80 °C
Overload protection:	up to 100 V
Communication:	Bluetooth 4.1
Connection to DieselPlus via Bluetooth:	up to 16 gauges connected to the same Tank Modem Plus
Max. length pipe:	1,000 m
Weight (approx.):	1 kg (according to length)

COMPONENTS

- › Gauge with measuring pipe that can be shortened or extended
- › Assembly kit: fuses, joints, screws, connector, sealings to avoid the gauge manipulation, bottom spring and mesh filter

TLC-Bluetooth Ex · Level Gauge · L = 1,000 mm	25833-CF00000
Bluetooth Tank Modem Plus Kit (antenna + support + SIM) · 12/24 V	258300700
Bluetooth Tank Modem Plus Kit (antenna + support + SIM) · 110/230 V	258300600
Tank Modem Plus Annual Licence	670800000

Optional

TLC 1,000 mm · additional section	258308000
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07 /

Level detectors and indicators

Level indicator

Tank fuel height gauge suitable for aerial tanks with a diameter not higher than 2,000 mm. Weatherproof and easy assembly. It does not need any maintenance.

COMPONENTS

- › Float to put into the tank joined to the indicator through a thread
- › Indicator expressed in centimetres
- › Two scales easy exchangeable: one for heights of 150 cm and one for 250 cm
- › Easily accessible maximum/minimum position adjustment

1 ½" level indicator	801901001
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Acoustic overfilling alarm

Luminous and acoustic alarm of the maximum tank level of any liquid fluid, water, diesel, etc. It is suitable for the tank filling warning up to a predetermined level.

Acoustic overfilling alarm	801904008
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Level switch

Custom-built switch that allows the automated control of the filling and emptying of one or more tanks. It can activate or control pumps, electrovalves, optical and acoustic alarms.

Max. Min. Level switch IP-55	808316042
Max. Min. Level switch EExd	808316005



07 /  
Level detectors  
and indicators

Leak detector

Security and control system that links the easiness with the usefulness. It detects the presence of liquid with its infrared sensor, activating or deactivating the device.

TECHNICAL DATA

Inlet:	110 to 230 VAC
Max. consumption:	10 mA
Max. intensity in relay:	8 A

COMPONENTS

- › Free voltage relay
- › Visual alarm (red LED · 5 mm)
- › Starting Visualization (green LED · 5 mm)

Leak detector	808302007
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Vacuum leak detector

Detector for the integrally-banded tanks according to the EN 13160-1, Class 1 Regulation. Suitable for diesel buried and aerial tanks in an atmospheric pressure with a diameter not higher than 2,900 mm. It creates a depression of -400 mbar between the inner wall and the exterior one of the tank. The alarm activates when the depression decreases.

TECHNICAL DATA

Acoustic emission:	min. 70 db(A)
Max. relay intensity:	2 A · 250 VAC (resistive)
Pump stop:	-410 to -450 mbar
Pump start:	-380 mbar
Alarm activation:	-325 to -355 mbar
Working temperature:	-5 °C / + 50 °C
Voltage:	100 - 240 VAC ±10 %
Power:	10 VA
Protection:	IP-30
Electromagnetic compatibility:	EN 61000 noise immunity · CISPR22 interference
Dimensions (approx.):	202x70x230 mm
Net weight (approx.):	1.1 kg

DFV · Vacuum leak detector	808302006
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