



LEVELview.BASIC.LPG

Radio transmitter unit (868.45 Mhz) for various Hall effect sensors | Ex zone 1/0



Your benefits

- Local monitoring of gas tank levels by radio transmission up to 500+ m range (free field)
- Contactless fill level detection using Hall effect sensors (magnetic field)
- Robust housing for use in demanding conditions
- Easy retrofitting to existing systems
- Quality „Made in Germany“



Easy installation

The assembly of the system can be done quickly and without complex cabling. Simply replace the existing fill level indicator (dial) on the float's flange with one of the Hall effect sensors in the RCT program.

The antenna can be flexibly mounted on metal surfaces in the manhole or on the tank by means of a magnetic base.

Quick set-up

Simply plug the radio transmitter to the battery pack and attach the transmitter with magnets on the tank or tank cap. The current fill level value is immediately recorded and transmitted to the desired receiver by radio signal. This can be connected to the power supply in the house. Data on tank and battery levels is transmitted cyclically every 20 minutes.

Individual solutions

The level measurement on the LPG tank is contactless thanks to a Hall-effect sensor and is suitable for all commercially available above and underground LPG tanks in potentially explosive areas (ATEX zone 1/0). The fill level is transmitted wirelessly via radio transmitter on the tank. The tank level can be conveniently read off in percent or liters on the "LCD Display" radio receiver at a range of 500+ m.

You can use as many other displays or radio receiver as you like within radio range. With a radio receiver "INTERFACE", the fill level can be output as an analog signal of 4 ... 20 mA or switch a relay depending on the level.

Would you like to monitor more than one tank? Use the RCT DATALOGGER for up to 16 sensors (wireless/wired) or LEVELview.WLAN for up to 12 wireless transmitters with data provision via web and app.





Technical Specifications

TRANSMITTER UNIT

Field of application	Liquid gas tank (above/below ground) with Hall effect sensor; Non-contact level measurement by magnetic field
Programming	Preprogrammed on delivery; Self-configuration when switching on for the first time
Data transfer	Via radio signal (868.45 Mhz frequency)
Data format	Coded data packet to RF receiver
Data reception	RF Receiver, e.g. LCD Display, INTERFACE 4-20 mA, DATA LOGGER, LEVELview.WLAN up to 500+ m radio range (free field)
Cyclical messages	<ul style="list-style-type: none"> Data transfer interval: 20 minutes Current fill level Battery level
Alarms	None; only on the receiver side
Accuracy	+/- 2% (Hall effect sensor type „RCT Junior“)
Housing	Weather-resistant fiber-reinforced plastic with encapsulation of electronics
Protection	IP 67*, ATEX zone 1 (electronics), ATEX zone 0 (sensor) * If the complete device unit remains submerged in water for a longer period of time, the battery can discharge.
Electronics	<ul style="list-style-type: none"> Microprocessor controlled Sensor measurement: 0 to 5 V (AD value 0 ... 999)
Power supply	Independent of mains supply via battery pack (replaceable)
Operating temperature	-30 ... +50°C
Dimensions	80 mm x 80 mm x 80 mm (L x W x H of housing)



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ITEM INFORMATIONEN

RCT item no.	1000079
Name	LEVELview.BASIC.LPG
Included	<ul style="list-style-type: none"> Transmitter Ext. magnetic base antenna Instruction manual Documentation of conformity

ACCESSORIES/SPARE PARTS

Depending on select.	Hall effect sensor
1000114 / 1000516	Magnetic base antenna 1,2 m
1000934 / 1000528	Standard battery
1000924	DATA LOGGER
1000123 / 1000384	RF Receiver int. antenna - LCD Tank symbol
1000143 / 1000373	RF Receiver ext. antenna - INTERFACE 4-20 mA
1000124 / 1001113	LEVELview.WLAN (WiFi)

EXTERNAL ANTENNA WITH MAGNETIC BASE

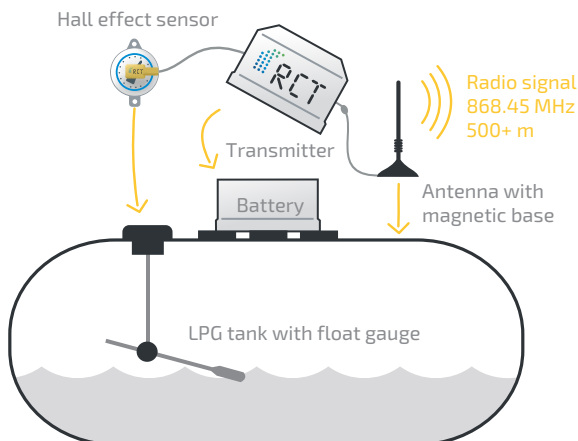
Cable length	1.2 m
Connection	Screw connection (SMA socket)
Mounting	Flexible with magnetic base

BATTERY PACK (replaceable)

Construction	Fully encapsulated, ATEX Zone 1
Connection	Coded, two-pole plug (reverse polarity protected)
Operating temperature	-30 ... +50°C
Mounting	Two mounting magnets in battery foot
Life span	Depending on transmission interval and temperature fluctuations 2-3 years

HALL EFFECT SENSORS AND ADAPTERS

1000034 / 1000744	Sensor RCT junior (compatible Rochester junior/SRG 487)
1000038	Sensor Typ Livello
1000043	Sensor Typ Cotrako
1000028	Sensor Original Rochester 4"
1000031	Sensor Original Rochester 8" Centerline
1000032	Sensor Original Rochester 8" Straddleline
1001032	Adapter Type Junior on SRG 705
1000438	Adapter Type Junior on Rochester 2"
1000541	Adapter Type Junior on Taylor 4"
1000054 / 1000542	Adapter Type Junior on Taylor 8"



Produced according to
DIN ISO 9001:2015



CE Conformity
Quality Made in Germany



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