



## LEVELview.PRO.LPG

Transmitter with Hall effect sensor | GPRS/LTE/4G/NB-IoT/CATM1 | Ex zone 1/0



### Your benefits

- Remote monitoring of gas tank fill levels simply smart via Web & Mobile App
- Non-contact level detection by Hall effect sensors (magnetic field)
- Robust housing for demanding conditions
- Simple retrofitting to existing systems
- Quality „Made in Germany“



### Easy installation

Simply replace the existing fill level indicator (dial) on the float's flange using one of the Hall effect sensors from 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

The transmitters are preconfigured ready for operation. Once the sensor and antenna are in place, simply plug the device together with the supplied explosion-proof battery pack. The transmitter sends a message to the factory pre-programmed webserver immediately after the measurement. The device, transmission and alarm parameters can be individually configured via the Web & Mobile App.

### Individual data management

Monitoring and analysis of fill levels and device data will be usually done via a Web & Mobile App (RCT standard: <https://webapp.r-c-t.biz>).

The platform offers various display options for a quick overview as well as a number of detailed analysis options and forecasting tools.

Important or critical conditions around the monitored tank can be defined individually. A wide range of alarm options and ways are available, as well as the free or automated generation of reports.

By using an API (programming interface) of the system, an automated data exchange with the customer's own ERP systems can be set up.

Our team of developers for software and hardware finds suitable solutions for every application.





## Technical Specifications

### TRANSMITTER UNIT

Application	Liquid gas tank (above/below ground) with Hall effect sensor; non-contact level measurement by magnetic field
Programming	Pre-programmed at the factory; after commissioning, individual configuration of device, transmission and alarm parameters via Web Platform & Mobile App
Data transfer	GPRS/LTE/4G/NB-IoT/CATM1 via integrated SIM chip
Data format	Default: data to web server, encrypted or IP VPN
Data reception	RCT cloud server or customized solution; data management via Web Platform & Mobile App
Cyclical notifications	<ul style="list-style-type: none"> <li>• Transmission intervals adjustable via Web App</li> <li>• Current fill level incl. 24 history fill levels, temperature, battery level, signal strength</li> </ul>
Alarms	<ul style="list-style-type: none"> <li>• Direct alarms from the transmitter (threshold values 1+2, exceeding, leakage, filling)</li> <li>• Indirect alarms via Web App (e.g. 2 further threshold values, device and sensor malfunctions, transmission errors)</li> </ul>
Alarm messages	Forwarding as push notifications or email
Accuracy	+/- 2% (Hall effect sensor 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"> <li>• Microprocessor controlled</li> <li>• Sensor measurement: 0 to 5 V (AD value 0 ... 999)</li> </ul>
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 INFORMATION

RCT Item no.	1000078
Name	LEVELview.PRO.LPG
Included	<ul style="list-style-type: none"> <li>• Transmitter</li> <li>• External antenna with magnetic base</li> <li>• Instruction manual</li> <li>• Declaration of Conformity</li> </ul>

### ACCESSORIES

Depending on selection	Hall effect sensor
1000516 (Standard)	Magnetic base antenna, 1.2 m
1000528	Standard battery
1000924	DATA LOGGER

### EXTERNAL ANTENNA WITH MAGNETIC BASE

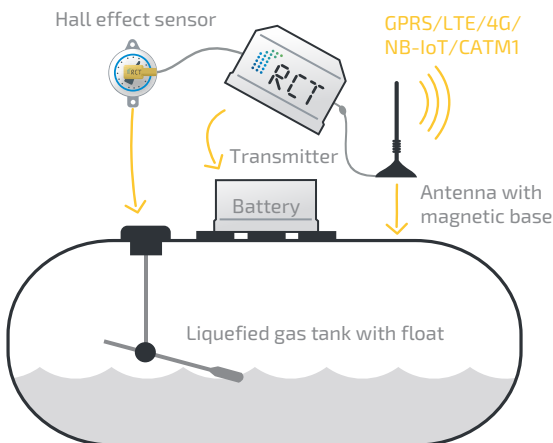
Cable length	1.2 m with screw connection (SMA socket)
Mounting	Flexible by means of magnetic base

### 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 (3-pole screw connection, IP68 connector)

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"
1000542	Adapter type Junior on Taylor 8"



Produced according to DIN ISO 9001:2015

CE CE Conformity  
Quality Made in Germany

Ex II 2(1)G Ex ib[ia] IIB T3

