



LEVELview.MOBILE

Intelligent level monitoring for barrels and tanks via RF, GSM and App



Your benefits

- Intelligent level and position monitoring of mobile tanks, barrels and containers
- Wireless communication locally by Radio signal and worldwide via GSM to Mobile App and Web Application (Cloud server)
- Robust design for industrial use with battery-powered, self-contained electronics
- All in one: Capacitive sensor for fill level, thermocouple for media temperature and localization of the barrel via Cell-IDs/ GPS
- Quality „Made in Germany“, for use in Ex zones 0/1



Easy Installation

First, the sensor is inserted into the tank through the tank's screw cap. Then the Transmitter unit can be screwed directly on the tank or barrel to be monitored. Finally the battery unit is connected to the device. The status can be monitored on LEDs on its top side.

Data transfer

The data is transmitted directly to the cloud server via GPRS or sent locally as a radio signal to a WIFI device, which forwards the data to the cloud server.

Programming

Initial programming and configuration adjustments of the LEVELview.MOBILE can be made remotely at any time via the Web Application using GPRS.

Access via App and Web

All levels and system messages are available 24 h/365 days a year from any location via the Internet. The data can be managed via App on smartphones and tablets and via the RCT Web Application on PC. Especially for the commercial monitoring of several containers at different locations, the platform offers a variety of options for display, evaluation and determination of requirements for individual containers and customer groups. Separate access for different customers and locations can also be set up.

Immediate alarm

Data are transferred via GSM regularly every 24 hours (incl. last 24 level readings). On an event (e.g. min./max. limit values, filling, empty battery) the device sends alarms, which appear as marking in Web App, push or e-mail notification to responsible persons.

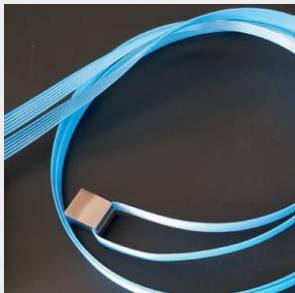




Battery unit



Transmitter unit



Cable sensor

Technical specifications

GENERAL

Power supply	RCT battery pack
Power consumption	With GSM dispatch, max. 350 mA per transmission cycle
Operating temperature	-20° C ... +40° C
Construction	Plastic housing or stainless steel housing
Electronics	Microprocessor controlled
Antenna	GSM, 4G, ISM, GPS (internal)
Dimensions	Approx. 107 x 60 x 80 mm (L x W x H)
Area of application	Mobile tanks, containers and barrels
Protection	IP65, protected and approved for use in Ex zones 0 and 1 (IP54 when using a locking pin)



MEASURING METHOD (CAPACITIVE SENSOR)

Measuring method	Capacitive
Cable Length	Customer specific
Attachment	Not applicable, directly connected to electronics

SEND AND RECEIVE BY RADIO FREQUENCY (LOCAL)

Frequency	868.45 MHz (coded signal)
Radio range	500 m (free field)
Compatibility	RCT Radio Receiver LEVELview.WLAN
Transmitted data	AD value 0-9999, tank level in % (0..99), battery level, functional parameters
Transmission interval	All 24 hours (adjustable)

SEND AND RECEIVE VIA GPRS (GSM MOBILE RADIO)

Data transfer	Via integrated SIM chip in the 4G mobile network
Cyclic message	Every 24 hours, transmission time freely selectable, one message contains 24 level measurement values
Transmitted data	AD value 0-9999, tank level in % (0..99), battery level, GPS data, functional parameters
Alarm message	Immediately on defined event (2 minimum and 1 maximum limit, battery empty, temperature limit etc.)
Data provision	RCT Web Application (web based)
Data backup	Server of the Deutsche Telekom (redundant on second server), available 24 hours / 365 days
Configuration	RCT Web Application (web based)

BATTERY PACK

Output voltage	7,2 V DC / 400 mA (max.)
Construction	UV- resistant, gas-tight, fully encapsulated plastic housing
Intrinsic safety	Intrinsically safe by double current limitation
Life cycle	Approx. 2 years (depending on transmitting frequency)
Operating temperature	-20° C ... +40° C

OPERATION

Operating pressure	30 psi, 5 bar
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LEVELview.MOBILE

PRODUCT INFORMATION

RCT Item No.	Name
1000096	LEVELview MOBILE - Plastic housing
1000098	LEVELview MOBILE - Stainless steel
1001072	Battery for LEVELview MOBILE - Plastic housing
1001026	Battery for LEVELview MOBILE - Stainless steel



Produced according to
DIN ISO 9001:2015



Ex II 2 1G Ex ia IIB T4 Ga

Class I, Zone 0, AEx ia IIB T4 Ga
Class I, Division 1, Groups C & D T4
T_{Amb} = -20°C to +40°C

