



LEVELview.PRO.OIL

Transmitter for various pressure probes and sensors | GPRS/LTE/4G/NB-IoT/CATM1 | Ex zone 1/0



Your benefits

- Remote monitoring of fill levels in oil, waste oil, diesel, gasoline and A1 fuel tanks simply smart via Web & Mobile App
- Precise level measurement by pressure probe or capacitive sensor (further on request)
- Robust housing for demanding conditions
- Simple retrofitting to existing systems
- Quality „Made in Germany“



Easy installation

The selected sensor is installed according to the instruction manual and, if necessary, calibrated for the tank or application area.

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

- Oil, waste oil, diesel, petrol and A1 fuel tanks
- Precise level measurement by hydrostatic pressure probe/capacitive sensor (on request also ultrasonic, radar and guided microwave)

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

- Transmission intervals adjustable via Web App
- Current fill level incl. 24 history fill levels, temperature, battery level, signal strength

Alarms

- Direct alarms from the transmitter (threshold values 1+2, exceeding, leakage, filling)
- Indirect alarms via Web App (e.g. 2 further threshold values, device and sensor malfunctions, transmission errors)

Alarm messages

Forwarding as push notifications or email

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

- 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)

EXTERNAL ANTENNA WITH MAGNETIC BASE

Cable length

1.2 m

Connection

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 2-2,5 years

PRESSURE PROBES AND SENSORS (3-pole screw connection, IP68 connector)

1000745

Pressure probe 0-0.25 bar/5 m (water column up to 250 cm, cable length 500 cm, incl. 1" tank plug with cable gland)

1000746

Pressure probe 0-0.5 bar/5 m (water column up to 500 cm, cable length 500 cm, incl. 1" tank plug with cable gland)

1000747

Pressure probe Keller (Ex0) 20 bar, screw thread

1000748

Pressure probe Keller (Ex0) 0.25 bar PR26YEI, immersion probe for A1 fuels

1001043

Capacitive flex probe (standard cable length: 1.80 m for self-assembly, incl. counterweight)

Further sensors

on request, e.g. ultrasound, radar, guided microwave



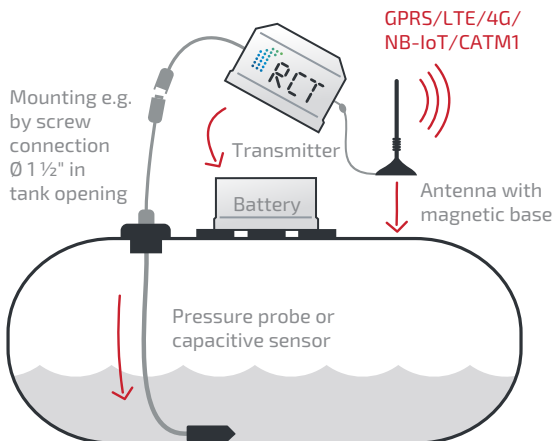
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ITEM INFORMATION

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

ACCESSORIES

Depending on selection	Pressure probe or capacitive sensor
1000516 (Standard)	Magnetic base antenna, 1.2 m
1000528	Standard battery
1000924	DATA LOGGER



Produced according to DIN ISO 9001:2015

CE CE Conformity
Quality Made in Germany

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

