

LEVELview.BASIC.OIL

Radio transmitter unit (868 Mhz) for various pressure probes and sensors (Ex zone 1/0)



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Your benefits

- Intelligent fill level monitoring of oil, used oil, diesel, petrol and A1 fuel tanks up to a range of 1.500 m (free field)
- Precise fill level measurement by means of pressure probe or capacitive sensor
- Robust housing for demanding conditions
- Quality "Made in Germany", two years warranty



Easy installation

There is no complicated cabling necessary to assemble the system. Simply insert the pressure probe or the capacitive sensor into a suitable free tank opening (diameter at least 1") down to the lowest point in the tank and seal the opening airtight using screwed connections. The antenna can be flexibly mounted on metal surfaces in the manhole or on the tank by means of a magnetic base.

Quick setup

Then simply plug the radio transmitter into the battery 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. This can be connected to the power supply in the house. The tank fill level and battery level data is transmitted hourly.

Individual solutions

The fill level measurement on the oil tank is carried out precisely by means of hydrostatic pressure probe or capacitive sensor and is suitable for all commercial tank shapes (vertical / horizontal cylinder, rectangular, battery tank, above and below ground). The transfer of the fill levels is performed wirelessly via radio transmitter on the tank. Information about the tank contents can be transmitted up to a range of 1.500 m and can be read in percent or liters.

In addition, you can use any number of other displays in the radio range. With an additional radio receiver "Interface", the level can be output as an analogue signal of 4 ... 20 mA or a relay can be switched depending on the fill level. Do you want to monitor several tanks within radio range? With the RCT DATALOGGER you can record up to 16 sensors via radio or cable and manage them online via the RCT Web application on the PC.





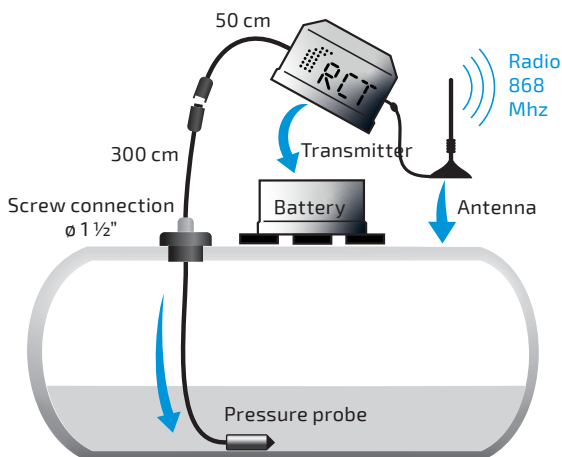
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ARTICLE INFORMATION

RCT article no.	1000079
Name	LEVELview.BASIC.OIL
Included	<ul style="list-style-type: none"> • Transmitter • External antenna with magnetic base • Instruction manual • Documentation of conformity • RF receiver

ACCESSORIES

Depending on selection	Pressure probe or capacitive sensor
1000516 (Standard)	Antenna, magnetic base, 1.2 m
1000528	Standard battery
1001121	Long-life battery
1000384	RF receiver, LCD tank symbol



Technical Specifications

TRANSMISSION UNIT

Use	<ul style="list-style-type: none"> • Oil, used oil, diesel, petrol and A1 fuel tanks • Precise fill level measurement using pressure probe
Programming	<ul style="list-style-type: none"> • Preprogrammed on delivery • Independent configuration when first switched on
Alarm	None
Data transfer	Radio (868 Mhz frequency)
Data format	Data set to RF receiver
Data reception	RF receiver LCD, RF receiver 4-20 mA, up to 1.500 m range (free field)
Cyclical notifications	<ul style="list-style-type: none"> • Hourly data transmission • Current fill level • Battery level
Alarms	None
Housing	Absolutely stable, weather-resistant
Protection	IP 67*, ATEX zone 1 (electronic), ATEX zone 0 (sensor) * If the complete device remains submerged in water for longer periods of time, the battery can discharge
Electronics	<ul style="list-style-type: none"> • Microprocessor control • Sensor measurement 0 to 5 V (AD value 0-999)
Power supply	Not dependent on power network: battery powered (battery interchangeable)
Operating temperature	-30 ... +50°C
Dimensions	80 mm x 80 mm x 80 mm (LxWxH of housing)
Warranty	2 years



EXTERNAL ANTENNA WITH MAGNETIC BASE

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

BATTERY PACK (INTERCHANGEABLE)

Construction	Fully encapsulated, ATEX zone 1
Connection	Coded, two pole plug (reverse-polarity protected)
Operating temperature	-30 ... +50°C
Lifespan	10 years depending on sending frequency (Long-life)

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

1000745	Pressure probe 0.25 bar / 3 m, with plug, cable guide and pressure sensor 0-5 V
1000746	Pressure probe 0.25 bar / 5m, with plug, cable guide and pressure sensor 0-5 V
1000747	Pressure probe Keller (Ex0) 20 bar, screw thread
1000748	Pressure probe (Ex0) 0.25 bar PR26YEI, immersion probe for A1 fuels
1001038	Capacitive sensor

