



Remote Control Technology GmbH

# Simplify monitoring.

*You have  
a tank?  
We make  
it smart!*

*Digitize gas  
meters now!  
With a simple  
upgrade!*

**IoT Solutions  
for your  
Energy World**

Tanks | Meters | Objects

*Where  
others stop.  
We start!*

*Everything  
in view?  
Go to the  
cloud!*

Remote Control Technology



RCT. Simplify monitoring.



## Welcome to RCT. Remote Control Technology GmbH

**RCT. We make  
IoTThings happen!**

Together with our  
exceptional customers  
we have launched  
many developments  
over the last 20 years.

Always with one goal:  
**Simplify Monitoring.**



Martin Meyer | RCT Founder and CEO

**Founded as GmbH**  
2004

**Founder and CEO**  
Martin Meyer

**Number of employees**  
25 plus external specialists

**Exports**  
about 40 %

**Customer sales structure**  
70 % trade | 30 % project business



**Making things simple  
has been our passion  
from the beginning.**

### **RCT. Remote Control Technology GmbH,**

with headquarters in Gladenbach, Germany, is one of the leading IoT solution providers for smart remote monitoring of tanks and meter installations in demanding Ex environments in the energy industry and of operating parameters in many other industries.

RCT supports energy suppliers, petrol station operators as well as public utilities, municipalities and property management companies on their way to digital transformation – and **opens up the potential of the "Internet of Things"** for more efficient business processes.



# RCT. IoT solution provider for energy and building monitoring

We develop and produce hardware and software solutions for monitoring tank levels, meter readings or operating states. And we ensure safe tank and object management with full-service solutions from a single source.

## Hardware | Sensors | Transmitter

Basic building blocks for your smart monitoring system

No more estimating, guessing or manually measuring – and certainly never run dry. Today, monitoring tank levels, meter readings and operating conditions are done differently: simply, quickly – and, above all, accurately.

RCT technology is based on a modular plug & play system consisting of transmitter units, sensors, radio receivers and accessories such as batteries, data loggers and antennas.

## Software Solutions | Apps

Tank, meter and object monitoring via Web and App

The wide range of applications for RCT technology – from large energy providers, municipalities and logistics companies to individual private tank users – brings with it a wide variety of requirements. That's why we offer you a platform with data management reports tailored exactly to your needs: Start quickly and easily with the standard platform or let us develop a solution tailored exactly to your requirements – customized for your business, integrating the branding and the design of your company and with data sovereignty in your hands.



Tank Monitoring



Meter Monitoring



Object Monitoring



Smart Services

## From a single source

- Development
- Approval
- Assembly
- Data management platform
- On-site service

## With EXpertise

The development of all RCT products is based on many years of experience and outstanding engineering know-how for Ex-applications. The aim is to provide tailor-made solutions with the highest quality and safety. For this reason, the entire manufacturing processes and quality management of the company are certified according to **DIN EN ISO 9001: 2015**.

All products bear the recognized CE seal and are tested in accordance with EMC guidelines. The devices for gas tank monitoring meet the high **ATEX** requirements and are approved for use in potentially explosive areas.

Ex-certification of production is carried out according to the requirements of Annex VII of Directive 2014/34/EU for equipment and protective systems (ATEX) by TÜV and stands for the highest product quality **"Made in Germany"**.



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# LPG

# LEVELview.

Secure gas tank monitoring  
with explosion protection

The installation, filling and maintenance of LPG tanks is, today, part of the full service packages of energy providers. In order to have maximum clarity about fill levels and to reduce the logistics costs for tanker fleets, energy providers rely on remote monitoring solutions and web applications.

The recording of accurate real-time tank level data creates operational reliability and ensures optimum route planning according to actual requirements.

**Are you looking for a professional solution for non-contact fill level measurement of your gas tanks – with explosion protection?**

Thanks to remote monitoring solutions from RCT, data no longer need to be manually read on-site. The fill levels of the gas tanks can be conveniently and clearly managed at any time and via web and app.

## LPG tanks fully under control

With RCT system solutions, you can automatically collect LPG tank fill levels, analyse consumption, determine requirements, schedule fill times and routes, and much more. And all that online and mobile on your PC and smartphone. For energy providers, petrol stations, property managers and public facilities, many new opportunities open up here – with maximum safety through Ex-certified equipment technology.

## Easy operation - Plug and Play

LEVELview.PRO devices are equipped with a SIM chip for data transmission and are already preconfigured. So you can get started right away. Optionally, we can provide you with devices that can be used with customer specific SIM cards.

The fill level is measured in a non-contact way using a Hall effect sensor and is suitable for all commercial liquid gas tanks and floats. Simply replace the level indicator (dial) on the tank with the RCT sensor. Then connect the transmitter to the battery and the unit immediately sends a message with current fill level to the RCT web server. Depending on configuration, the data is now sent cyclically or when defined limits are reached and can be managed via your secure access to the RCT web application on PC or smartphone. Retrieve and analyse all tank levels at any time, regardless of location. Forward status messages and alarms, e.g. by mail to responsible persons. Give individual tank users and customers access to the measurement data of their specific tank.

**You have  
a tank?  
We make  
it smart!**





© Kerngas GmbH & Co.KG



"The installation of the RCT monitoring system is trouble-free and its handling is extremely simple and convenient for the user.

As a result, RCT offers us the opportunity to make deliveries to our customers even more efficiently in the future and to increase customer satisfaction."

Wolfgang Kern | CEO Kerngas GmbH & Co. KG  
Germany



"RCT Monitor is a logistics managers dream because you know exactly what's in the tanks, and you know it a week ahead of time. It's just so simple to dispatch loads and keep bulk plants full.

What I am most thrilled about is how happy my customers are with the app! Using these tank monitors, I was able to provide a solution to a problem for a great customer and further solidify our relationship. This has been a total win-win for both my customer and my company".

Dr. Luis Carlos Peña Rincón  
Norgas S.A. | Bogotá  
Colombia

Now throughout  
Colombia – Norgas  
makes its LPG  
tanks smart



© Norgas S.A.



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# OIL

# LEVELview.

Precise remote monitoring for oil, diesel, gasoline or A1 fuel tanks

From production to storage in tanks, through delivery to end consumers – easily flammable fuels such as heating oil, used oil, diesel, petrol or A1 fuels must be safely monitored along the entire energy supply chain.

In addition, energy providers and petrol station operators need to collect measurements from their tanks and their fill levels centrally, to analyze consumption, plan energy purchases efficiently, and optimize delivery and billing.

**Are you looking for a precise remote monitoring solution for your oil, diesel, waste oil, and fuel tanks?**

RCT makes remote monitoring of easily inflammable facilities simple and safe. No inspections, no unexpectedly empty tanks, but a need-based filling: the best basis for convincing customer service and enormous savings potential.

## All fill levels automatically in view

With RCT technology, you have control over the fill levels of your oil and fuel tanks, any time and anywhere – online and mobile on your PC or smartphone. Collect the real fill level data automatically, analyze consumptions, determine requirements, schedule fill times and routes, and much more – ideal for energy providers, filling stations, property managers and public institutions.

## Modular with various sensors

Measurement is carried out precisely by hydrostatic pressure probe, capacitive sensor or customer specific sensor and is suitable for all commercial tank shapes. Prerequisite is a free tank opening (diameter at least 1"). The probe is inserted into the tank down to the lowest point and the opening is hermetically sealed by means of screwed connections.

As soon as you connect the transmitter to the battery, the device sends notifications depending on configuration via LTE, 4G, NB-IoT, Sigfox or LoRa to the RCT web server. The devices are already preconfigured for immediate use, but a variety of transmission and alarm parameters can be set individually at any time.

## Convincing customer service

In addition to self-used tank management via protected access to RCT web application, it is possible to give individual tank users and customers access to the measurement data of specific tanks. As a result, the RCT system offers not only savings through the automation of data acquisition, but also the best possible conditions for convincing customer service.

**You have  
a tank?  
We make  
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„Using RCT's monitoring technology was an important step for us, to accurately and proactively schedule fill times at our autogas station.“

Andreas Bosse  
Adolf ROTH GmbH & Co. KG  
Germany

© Adolf ROTH GmbH & Co. KG

## Energy provider relies on IoT technology from RCT

Supplying liquefied gas alone is no longer enough. Today, energy suppliers must offer their customers more - especially in the current energy crisis with resource shortages and rising prices. Smart, digital solutions are required that provide customers with maximum transparency in energy consumption.

These are offered by Friedrich Rath GmbH & Co. KG from Langenburg, Germany. The liquefied gas supplier relies on the advantages of IoT-based monitoring systems from RCT for tank installations.



© Friedrich Rath GmbH & Co. KG



„With RCT's smart monitoring technology, we have the levels of our own liquid gas tanks as well as those of our customers, always and at all times firmly in view. In addition, it enables us to offer our customers new, smart services.“

Friedrich Rath | CEO Friedrich Rath GmbH & Co. KG  
Germany



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# LEVELview.

## AQUA

Water tank and cistern  
monitoring via Web and App

Water is a precious commodity. A safe drinking water supply and environmentally friendly water treatment are essential for humans – and also for industry.

The prerequisite for a reliable and optimized water supply is the fill level measurement in water tanks and cisterns. It is important to protect pumps from running dry, refill water if necessary and to prevent overflow of containers.

### Are you looking for a comfortable monitoring of your water tanks – via smartphone or web?

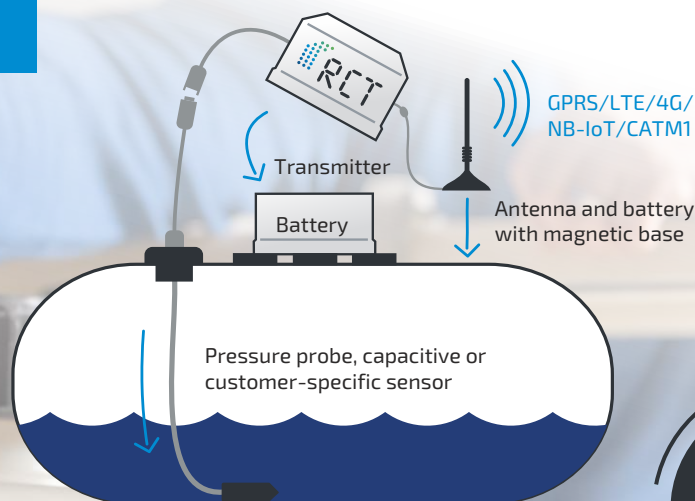
RCT provides easy-to-adapt remote monitoring technology for both industrial and residential customers for quick installation and easy operation.

### Convenient – online and mobile

Control the contents of your water tanks and cisterns conveniently on your PC or smartphone. Monitoring and analysis of fill levels and device data will be usually done via the RCT Web Application. 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.

### Precise measurement technology

The measurement is carried out precisely by means of a hydrostatic pressure probe, capacitive sensor or customer specific sensor and is suitable for all commercial tank shapes. The selected sensor is installed e.g. in a free tank opening, and calibrated for the tank type. As soon as the transmitter is connected to the battery, the device sends the current levels to the RCT web server – cyclically, if limits are reached or in the case of alarms. Device and antenna can be mounted easily by fixing them with magnetic feet to a metal frame or plate.



**You have  
a tank?  
We make  
it smart!**





Precise pressure probe 0.25 bar | water measuring up to 250 cm | 5 m cable | incl. 1" installation plug with cable entry



Capacitive sensor with flexible ribbon conductor | Standard cable length 1.80 m for self-assembly | incl. counterweight



RCT. Simplify monitoring.



# METERview

Simply digitize analog gas meters  
without exchange

With its smart METERview solution, RCT shows how diaphragm gas meters from Kromschröder, SAMGAS and others can now be wirelessly and easily upgraded to smart gas meters via plug & play. With the transmitter module, gas meters can be easily monitored remotely via Web App and Mobile and consumption data can be recorded securely.

## Make analog gasmeters smart during operation

The energy transition is in full progress. Energy suppliers are faced with a mammoth task: the installation of millions of digital meters for a wide range of applications such as gas, heat and electricity meters.

Solutions with the latest IoT technology are available - such as RCT's smart hardware and software solutions for gas meters and tanks. In order for analog gas meters already in operation to benefit from the advantages of digitization they only need to be retrofitted with RCT's METERview transmission unit.

The advantages: simple and quick installation during operation, without the need to replace the existing gas meters!

While technologies for smart metering have long been available in the electricity sector, there is still a lot of catching up to do in the gas sector. With the ex-certified RCT METERview transmission unit, gas meters can be easily monitored remotely via NB-IoT, CATM1, 4G and 2G transmission via web app and mobile.





**Digitize gas  
meters now!**  
With a simple  
upgrade!



RCT. Simplify monitoring.





# MULTIview

Mobile monitoring of rooms, objects  
and operating states

Burglaries, moisture, power outages and the risk of frost – owners of buildings, houses and apartments as well as mobile objects often know these problems from their own experience. Thus, objects and rooms in industry and commerce such as warehouses and production halls, heating and air conditioning systems, truck beds or containers must be monitored safely and easily as must homes, holiday homes, garden sheds, motorhomes and boats in the private sector.

## **Are you looking for a simple and flexible mobile remote monitoring system via web and app?**

With MULTIview from RCT, status notifications for current measured values and events can be quickly recorded. Movements in the monitored room, the triggering of a door or window contact, changes in temperature and humidity, but also a system fault or a power failure are reported immediately.

MULTIview is mobile, wireless and can be used without power connection – thanks to plug & play technology immediately ready to go.

## **Mobile device for flexible remote monitoring**

With RCT MULTIview, objects and rooms can be monitored quickly and easily. The wireless, battery powered transmitter unit can be used instantly in almost any location – self-sufficiently, even where no power connection is available. The device is preconfigured with a SIM card and ready for immediate use without expert knowledge. Insert SIM card into the device, set up individual device parameters comfortably via RCT web app and activate it simply by connecting the transmitter to the battery pack. For motion detection simply place it in the detection area or attach it to the wall or ceiling using a magnetic holder.

## **Parameterize individually**

Via the RCT web app you can switch individual sensors on or off, set limit values for temperature and humidity, set alarm triggers, as well as transmission times for status notifications and much more.

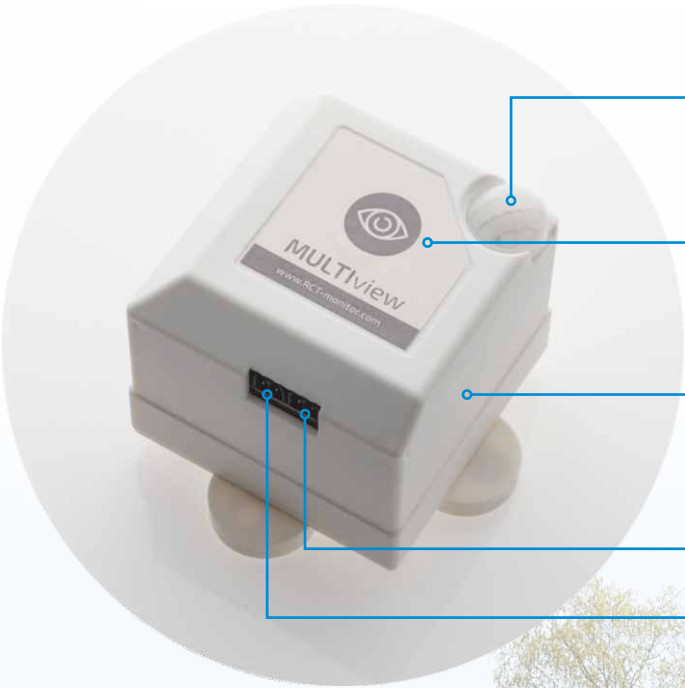
Once set up, you can activate the MULTIview anytime and anywhere simply by plugging it to the battery or deactivate it by disconnecting. All settings remain stored while the unit waits for its next use. Or you can use the internal calendar to activate the MULTIview on specific days/times.

## **Everything under control on PC or mobile**

All messages from the MULTIview are sent directly to the RCT server and are available to you in full on your PC, smartphone or tablet: information on humidity and temperature as well as alarms in case of an event like movement detection or reaching a limit value. By saving the history of all messages, you automatically receive a comprehensive documentation of all faults and operating states and a graphical representation of temperature and humidity progression.

*Simply  
know what's  
going on!*

# 5 Conditions perfectly in view



### MOTION SENSOR

High-sensitivity motion sensor | 360°  
e. g. interior monitoring, break-in



### TEMPERATURE SENSOR

-40 °C ... +125 °C |  $\pm 1$  °C  
e. g. to monitor heating and cooling systems  
or temperature sensitive applications



### HUMIDITY SENSOR

0 ... 100 % RH |  $\pm 4$  % RH  
e. g. monitoring greenhouses and warehouses



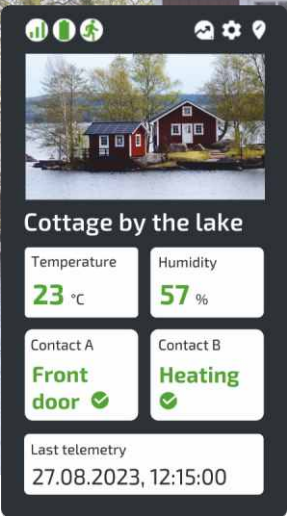
### A CHOICE OF TWO ALARMS

Freely usable inputs for connecting  
potential free switches for alarms  
e. g. door and window contacts  
(break-in), heating and air condition  
failure, power outage and many more



### POWER FAILURE

Optional connection of an adapter to one  
of the two alarm contacts for monitoring  
a connected 230 V socket outlet  
to detect a power outage



RCT. Simplify monitoring.





# EXpertise

Where  
others stop.  
We start!

Development of customized IoT modules  
and sensors, especially for Ex environments

## Our fuel: Innovations!

RCT was awarded the BSFZ  
seal of approval in 2023 for  
its innovative expertise.



**MADE IN GERMANY**  
with certified  
**Quality management**  
according to  
**DIN ISO 9001:2015**



### You have an idea for a new product?

But no development expertise for monitoring solutions with explosion protection? Our motto is: Where others stop, we start! RCT is a sought-after engineering partner in the industry.

We develop and produce hardware and Ex-certified solutions and offer proven systems with Ex-protection, exclusively developed sensors and IoT modules as well as integration of third-party devices – for individual, global requirements for well-known, leading companies for example from the pharmaceutical and chemical industries.

### Years of experience and outstanding know-how for Ex applications

Our range of services extends from the initial idea through the concept to design and prototype construction as well as series production. In addition, our series products are constantly being upgraded to meet increasing requirements. Our aim is to provide you with precisely fitting solutions of the highest quality.

### Certified production

For this reason, RCT's entire manufacturing processes and quality management have been certified according to DIN ISO 9001 since the beginning of the company.

All products are certified with the CE label and tested according to EMC directives.

The devices for monitoring gas, gasoline and chemical tanks meet the high ATEX requirements and are approved for use in potentially explosive atmospheres.

The ATEX certification of our production in Gladenbach, Germany, is carried out according to the requirements of Annex VII of the Directive 2014/34/EU for equipment and protective systems (ATEX) by TÜV and stands for highest product quality "Made in Germany". These certifications provide security in terms of design, procurement, management, sales consultations and last but not least for the safety and function of the products themselves.





From the initial idea through concept, design and prototype construction to ex-certified series production

How can chemical drums be monitored smartly?  
How can drums be prevented from being lost or forgotten on supply shelves?  
And how can emptied barrels be organized professionally?

With a GPS-controlled remote monitoring!

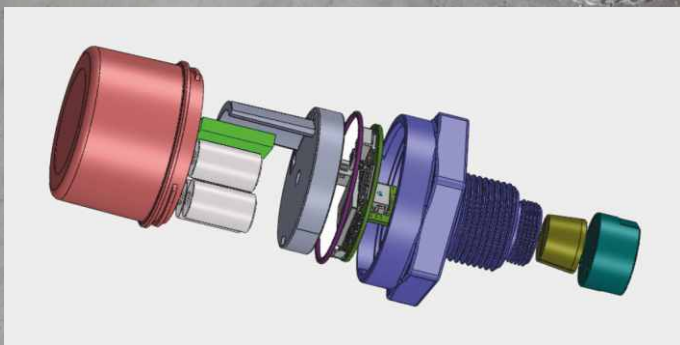


## LEVELview.MOBILE

Level, temperature and position monitoring of mobile barrels, IBC tanks and containers

This robust transmitter unit combines all in one: level and temperature measurement of the medium as well as localization via GPS/cell IDs.

The ex-certified device can be screwed directly in the tank opening. An integrated SIM chip transmits the data worldwide via GPRS. No matter where the tank is, you can keep an eye on all parameters via IoT platform.



RCT. Simplify monitoring.



# Monitoring

Software solutions and Apps  
for intelligent data management

## **IDAC** Digital Application Center

### **RCT Digital Application Center "DAC"**

No matter whether you want to monitor just one tank or a large number of different tanks, meter readings and other objects – with the RCT IoT platform you have all measured data and messages immediately in view – cloud-based on PC or mobile on smartphones and tablets.

With our newest IoT monitoring platform "DAC" for smart energy and building management, we can now provide you with even better data security, greater transparency, flexibility, convenience and support.

### **NEW with customizable dashboard for your individual daily tasks**

A flexible dashboard, that can be set up individually, enables the user to extract and bundle exactly the information that is important for the daily work in various business areas: e.g. list of tanks to be filled for the fleet management, service tasks for technicians, total need of certain tank groups for precise commissioning, stock management and route planning.

### **Tank, meter and object monitoring via web & mobile**

RCT provides a cloud-based web interface for secure and efficient remote monitoring of tank levels, meter readings and other operating states. The RCT platform can be accessed via any PC or mobile by smartphone and tablet: via web browser at the URL address [webapp.r-c-t.biz](http://webapp.r-c-t.biz) or als mobile app „RCT Webapp“.

### **Analyse and evaluate data**

The simple and intuitive IoT platforms offer a variety of processing and evaluation functions for simple to complex data management as well as analysis and forecasting tools. Important or critical conditions around the monitored tanks, meters and objects can be defined individually. A wide range of alarm options and ways are available, as well as the free or automated generation of reports.

### **Highest data security**

The RCT platform meets the highest security standards. The data is stored in one of the most modern and secure data centers worldwide: in the Open Telekom Cloud. This ensures that all your data remains in Germany and the EU in strict compliance with data security in accordance with the European General Data Protection Regulation (GDPR).

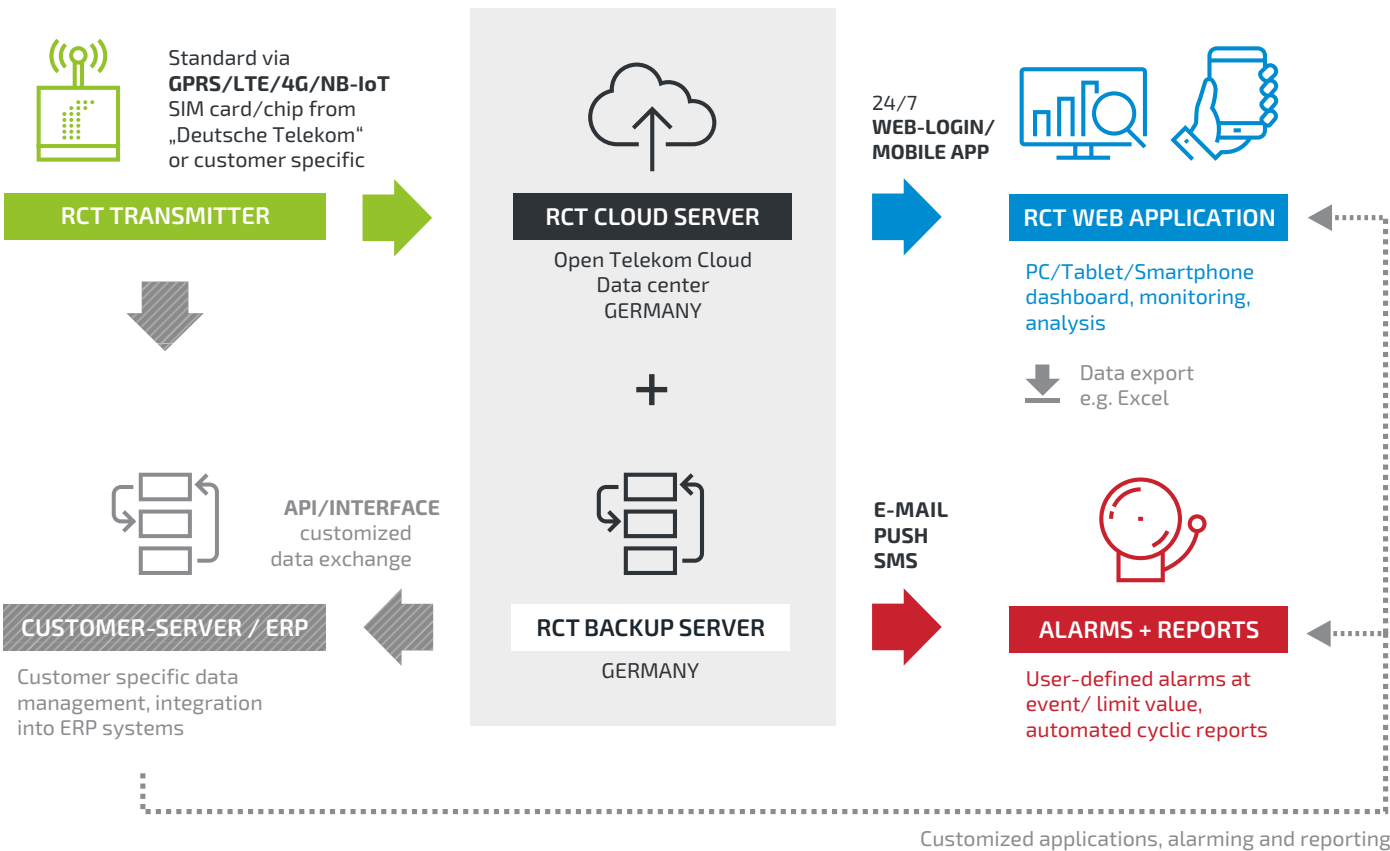
With a permanent maximum availability of 99.999%, the Open Telekom Cloud offers maximum reliability – plus an emergency power supply for a minimum of 48 hours.

### **Interfaces and data exchange**

You decide where reports and data are documented and who has access to the data. By using an API (programming interface) 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.

# From the transmitter to your monitor

Secure end-to-end digitization with cloud-based data management



RCT. Simplify monitoring.





# Our best

*In a league  
of its own*







## Product families at a glance - Sensors and transmitters for local and global remote monitoring

### Transmitters at three performance levels

<b>BASIC</b>	local data transfer in radio range (500+ m)
<b>ADVANCED</b>	local data transfer in radio range (500+ m) plus forwarding via WiFi into the global network
<b>PROFESSIONAL</b>	global cloud-based data management using transmission technologies as GPRS, 4G, LTE, NB-IoT, Cat-M1

### Simple, thanks to the modular principle

Usually, an RCT-LoT solution consists of a specific sensor, transmitter with battery and receiver and/or web-based data management. This modular structure enables fast, flexible configuration and installation. Customized solutions can also be implemented in shortest time using existing modules.

						
<b>Application ▶</b>	<b>LPG</b>	<b>OIL</b>	<b>AQUA</b>	<b>MULTI</b>	<b>LOCAL (500 m)</b>	<b>GLOBAL MONITORING</b>
	for liquified gases	for oil, diesel, gasoline, A1 fuels, chemicals	for water, waste water	e.g. motion, temperature, humidity, switch contacts...	RCT Radio Receivers (868.45 MHz) for local display, signal integration and forwarding	Data reception on RCT Cloud Server for remote monitoring on PC or mobile via RCT Web Application; different communication technologies for global data transfer
<b>▼ Product family</b>						
<b>LEVELview.BASIC</b>	●	●	●		●	
<b>LEVELview.ADVANCED</b>	●	●	●		●	WiFi (Router) ●
<b>LEVELview.PRO</b>	●	●	●			GPRS/4G/LTE/NB-IoT/Cat-M1 ●
<b>LEVELview.MOBILE</b>		●	●		●	GPRS/4G/LTE ●
<b>METERview</b>	●	●	●			2G GPRS/Cat-M1/NB-IoT ●
<b>MULTIview</b>				●		GPRS ●
<b>▼ combinable with ▶</b>	<b>SENSORS + ADAPTERS</b>			<b>RADIO RECEIVER</b>	<b>DATA LOGGER</b>	
Hall effect sensors	●			e.g. LCD Display for LPG tank level, Interface 4-20 mA, DATA LOGGER	<p>The DATA LOGGER is equipped with 16 channels for recording and processing different tanks, meters and objects. It can be combined with radio transmitters LEVELview.BASIC and different wired sensors and alarm contacts.</p> <p>Via GSM/GPRS the measured data are forwarded and made available worldwide for web-based data management via RCT Web Application.</p>	
Pressure sensors		●	●			
Capacitive sensors		●	●			
Impulse counters	●	●	●			
Motion, temperature, humidity, contacts, power failure etc.				●		



# Service

**RCT. A reliable partner for new challenges in the energy world**

Global networking offers new, unprecedented opportunities. But it also confronts us with new challenges. Reliable partners are needed who can master – but also reduce – the increasing technical complexity and offer service solutions that provide optimum support for the safe, efficient operation of networked systems.

## **RCT. Service provider for IoT system technology**

To complete its range of services, RCT offers its customers a comprehensive service program: to ensure greater safety and availability of systems as well as more simplicity and convenience in the energy management. The range of services extends from individual services to complete service packages: from installation and commissioning, maintenance and testing, troubleshooting and tank inspection to integration into system technology, provision of connectivity, App development, energy management as well as monitoring and data analysis.

## **Rent instead of buying**

Renting remote monitoring technology instead of buying it? Is this a marketing ploy? No. RCT offers its customers a rental service for its LEVELview series and METERview.

## **Equipment service: We do it.**

You want to concentrate fully on your energy business? You want the data transmission of your tank systems to simply work safely? You don't want to deal with maintenance or breakdowns? Now you can get rid of these tasks! We simply do it for you! RCT has established a service network throughout Germany – and with international service partners, we are gradually extending it to other regions.

**Just ask us!**



**We make your tank, energy and property management safer, easier and faster thanks to high system availability, full service from a single source and maximum data transparency.**



**RCT. Simplify monitoring.**



# Our solutions. Your benefit.

## IoT capable

for global networks with Cellular 4G/3G/2G, LTE, NB-IoT, Sigfox, LoRa-WAN, Cat M1 and RF + WiFi

## Fast

easy commissioning thanks to plug & play principle and preconfigured transmitters

## Modular

flexibly combinable with different sensors for all common tanks, meters and objects

## Resource-saving

battery pack and separate modular components are replaceable by yourself plus recyclability

## For industrial use

mobile device technology with industry standard (fully encapsulated)

## Transparent

standard or customized IoT platform for maximum data transparency via web and mobile

## Individual

data presentation in customer-specific applications, API Interfaces and integration into own ERP systems

## Data sovereignty

full control over own data with individual data management solutions and GDPR-compliant webserver in Germany/EU

## Flexible

device engineering and adaptation, as well as software development on demand

## Safe

device technology certified according to ATEX, CE, ISO, QPS, TÜV etc. for installation in demanding Ex environments



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