New developement: RCT COUNTERview

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 RCT Remote Control Technology GmbH

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RCT makes gas meters simply smart

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 its new development "RCT COUNTERview", RCT shows how existing 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 GSM, LoRa, SIGFOX or NB-IoT transmission on the web and mobile app, and consumption data can be recorded securely.

Gladenbach, 04. Oktober 2022 – In the course of resource scarcity, the need for current gas meter readings and consumption data for real estate owners and managers as well as for energy suppliers is becoming more and more important. Energy consumption must be recorded quickly and intelligently. "The potential of saving more gas or improving its management through real-time consumption data and maximum transparency is currently increasing the demand for smart gas meters enormously," says Martin Meyer, Managing Director at RCT, specialists in remote monitoring technology.

"It couldn't be simpler: With RCT COUNTERview, we have developed a solution that upgrades gas meters in operation IoT-capable in no time at all – without replacement and without wiring - and connects them to a web app or mobile app for data collection and visualization," explains Martin Meyer.

Quick commissioning

The new COUNTERview can be easily installed on existing gas meters by plug & play. To do this, the transmitter unit is simply plugged directly onto the pulse output of a Kromschröder or SAMGAS type diaphragm gas meter and fastened with a screw or seal. Other gas meter types that have an external sensor with pulse output can also be adapted. The device is activated just by inserting the battery. It immediately sends the current data to the web platform "RCT Monitor". There, the value of the counter and the current counter reading are set as the start value. Now the device counts the pulses and transmits them regularly to the RCT web server for detailed consumption recording and control via the Internet.

The pulse acquisition for all common gas meters is contactless via reed contact. Users can choose between GSM, LoRa, SIGFOX or NB-IoT for the data transmission technology.

Safe from manipulation

The transmitter module can be protected against unauthorized access by a lead seal. If it is removed, e.g. for a battery or meter change, a built-in motion sensor detects the vibration and immediately sends a warning message, which is forwarded to the responsible person, e.g. by e-mail.

Individual data management

Meter readings, consumption and system messages can be monitored and evaluated at any time via the Internet using the mobile app or web app. Various interfaces (API, CSV, mail, etc.) are available for external data processing. All these services are provided on a German cloud server. The connection to further services creates an optimal working environment for administration, logistics and end customers with separate access options. Indirect alarms can also be activated in the Web App, e.g. atypical consumption, device and sensor malfunctions, and transmission errors. The Web App and Mobile App are available in RCT's standard design or personalized in the customer's own corporate design.

(3.405 Zeichen)

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**Bildmaterial**

RCT COUNTERview: With its new development "RCT COUNTERview", RCT shows how diaphragm gas meters from Kromschröder, SAMGAS and others in operation can now be wirelessly and easily retrofitted to smart gas meters via Plug & Play.

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**About RCT**

RCT Remote Control Technology, headquartered in Gladenbach, Germany, is one of the leading IoT solution providers for smart remote monitoring of fueling systems in demanding Ex environments in the energy industry and of operating states in building technology. The company supports energy suppliers, filling station operators as well as public utilities, municipalities and property management companies on their way to digital transformation - and taps the potential of the "Internet of Things" for more efficient business processes.

RCT develops and manufactures transmission units for the intelligent recording of tank levels or operating states - for local and global networks. The range of solutions includes level control of liquid and gaseous media in storage tanks such as liquefied petroleum gas, heating oil, diesel and A1 fuels as well as technical gases, water and chemicals in stationary and mobile applications. In addition, RCT offers smart solutions for remote monitoring of buildings and facilities. These include the recording of electricity consumption, water consumption, gas consumption and the monitoring of movement, temperature, pressure, humidity as well as heating, cooling and air conditioning systems.

With certifications according to ATEX, CE, ISO, QPS, TÜV and others, the products developed and manufactured by RCT in Germany stand for safe and tested device technology. For secure and fast data transmission, the manufacturer relies on state-of-the-art transmission technologies such as Cellular 4G/3G/2G, NB-IoT, Sigfox, LoRa-WAN, CatM1, LTE, WLAN, RF and GPRS.

With the IoT platform "RCT Monitor" and customer-specific IoT platforms, RCT has cloud-based solutions for applications in the "Internet of Things" in the energy world. This enables the simple, secure and scalable networking of physical objects such as IoT transmission units for tank and object monitoring and of computer-based systems. Within this environment, all data from countless IoT devices from RCT - as well as from other types of devices - can be collected, stored, exchanged and analyzed via the IoT platform.

By analyzing the data, it is possible to gain insights, make informed and strategic decisions much easier, and also develop new business models. The range of services offered by the IoT platform includes smart applications for merchandise management and billing as well as app solutions for logistics processes - web-based, via smartphone app or voice control.

To round off its range of services, RCT offers its customers a comprehensive service program: for more safety and availability of plants as well as more simplicity and convenience in energy management. The range of services extends from individual services to complete service packages: from installation and commissioning, maintenance and testing, troubleshooting and tank testing to integration in plant technology, provision of connectivity, app development, energy management, and monitoring and data analysis.

**The company from Germany**

Development - Approval - Assembly - On-site service - Web platform: everything "Made in Germany"

All transmission technologies: GSM (SMS) - GPRS (4G/3G/2G) – NB-IoT / CAT M1 - Sigfox - LoRa

Designed to be recyclable: All components that are subject to wear and tear (antennas, batteries, sensors) can be replaced individually.

For more information please visit www.r-c-t.biz