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Ingenuity for life



Hand in hand
for reliability

Measuring at the end of the world
thanks to SIMATIC RTU3030C
and Siemens field devices

[siemens.com/processinstrumentation](https://www.siemens.com/processinstrumentation)

Combined reliability

The perfect teamwork of the remote terminal unit SIMATIC RTU3030C and Siemens process instrumentation opens up new possibilities

Operators of telecontrol systems, e.g. in the water supply sector, often have to monitor unmanned plants or measuring stations (e.g. wells) that are widely spread geographically. Service calls here are associated with high costs. Moreover, some measuring stations are not connected to the power grid for financial or other reasons (e.g. located in a nature reserve). A remote terminal unit (RTU) used at such measuring stations for the collection and transmission of measured values (e.g. level, flow rate, filling height, temperature, pressure) requires an alternative power source. That's where the SIMATIC RTU3030C comes into play.

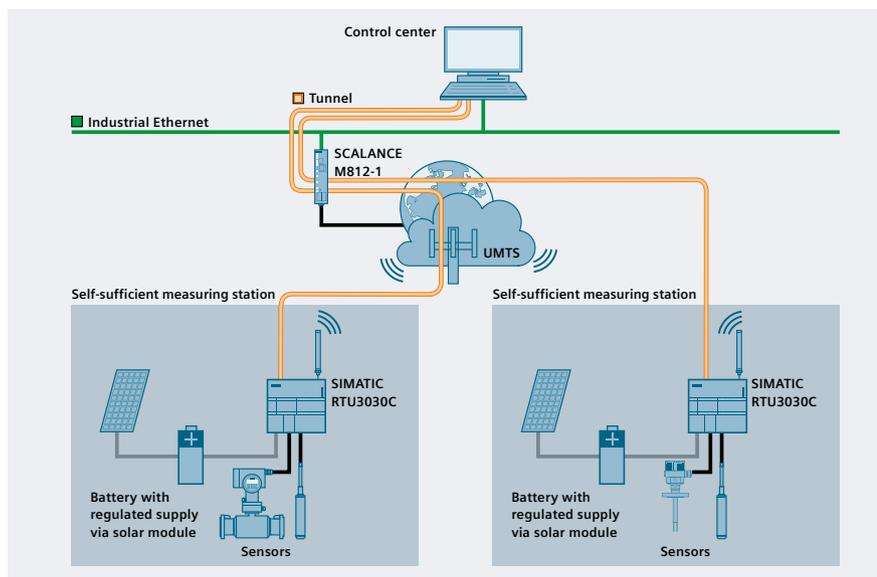
The remote terminal unit is energy-self-sufficient and can be used even in locations where no power supply exists. With an additional external enclosure (IP68) it can even resist floods. Typical applications are in the water and wastewater industry, agriculture or inventory control. The RTU can be used, for example, for detection of leaks, monitoring of pumping stations and water tanks, remote inventory control, monitoring of liquid levels in tanks and silos or monitoring of agricultural irrigation systems. Even level monitoring of standing and flowing water bodies, and also flood protection are possible.



Battery-operated water meter SITRANS MAG8000 together with the SIMATIC RTU3030C inside the external enclosure IP68 with antenna.



SIMATIC RTU3030C with antenna and pressure transmitter SITRANS LH100 for hydrostatic level measurement.



The SIMATIC RTU3030C sends data to a control center via a telecontrol protocol (TeleControl Basic, DNP3 or IEC60870-5-104). In case of a defined unusual event (e.g. if specified threshold values are exceeded) an alarm is sent with high priority to the control center or selected personnel by e-mail or SMS.

Efficient automation solutions and simple integration of field devices in the process control system offer the highest accuracy in process instrumentation. The SIMATIC RTU3030C records measurement values from connected sensors (e.g. flow, level, temperature or pressure) and uses mobile communication to transmit this data to the control center or master station – secured via an OpenVPN tunnel or an encrypted e-mail. Even from the world’s most remote areas – the SIMATIC RTU3030C is completely self-sufficient.

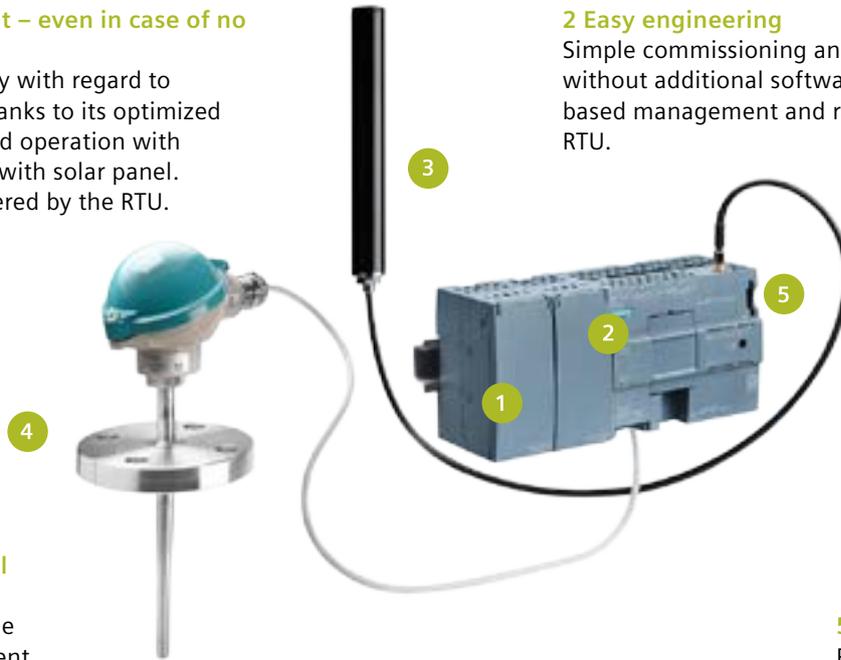
The advantages at a glance:

1 Energy-self-sufficient – even in case of no local power grid

High degree of flexibility with regard to deployment location thanks to its optimized energy consumption and operation with battery or accumulator with solar panel. The sensor can be powered by the RTU.

2 Easy engineering

Simple commissioning and parameterization without additional software thanks to web-based management and remote access to RTU.



3 Different telecontrol protocols

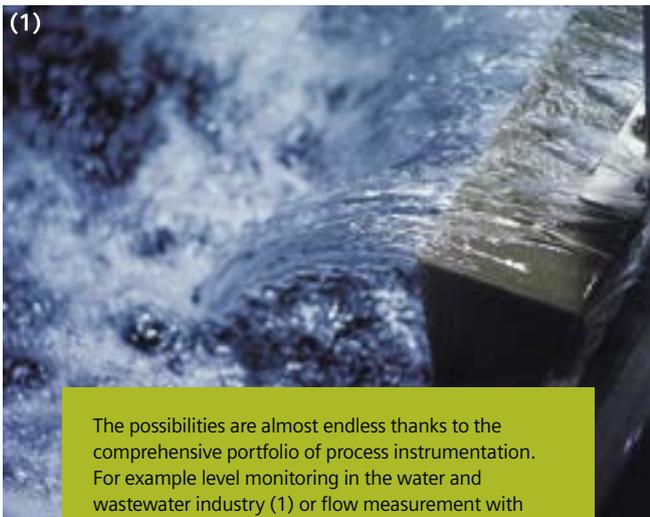
Diverse applications due to connection to different control centers thanks to different telecontrol protocols.

4 Diverse fields of application

A comprehensive portfolio of process instrumentation offers a wide range of applications.

5 Data logging

Recording and storage of time-stamped measured values on an SD card.



The possibilities are almost endless thanks to the comprehensive portfolio of process instrumentation. For example level monitoring in the water and wastewater industry (1) or flow measurement with the SITRANS F M MAG 5100 W (2).

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Article No.: PDPA-B10137-00-7600
Dispo 27900
WS 06161.5
Printed in Germany
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