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The new energy-self-sufficient Remote Terminal Unit (RTU) with its own power supply

Designed for the most remote regions and the harshest environmental conditions: SIMATIC RTU3030C

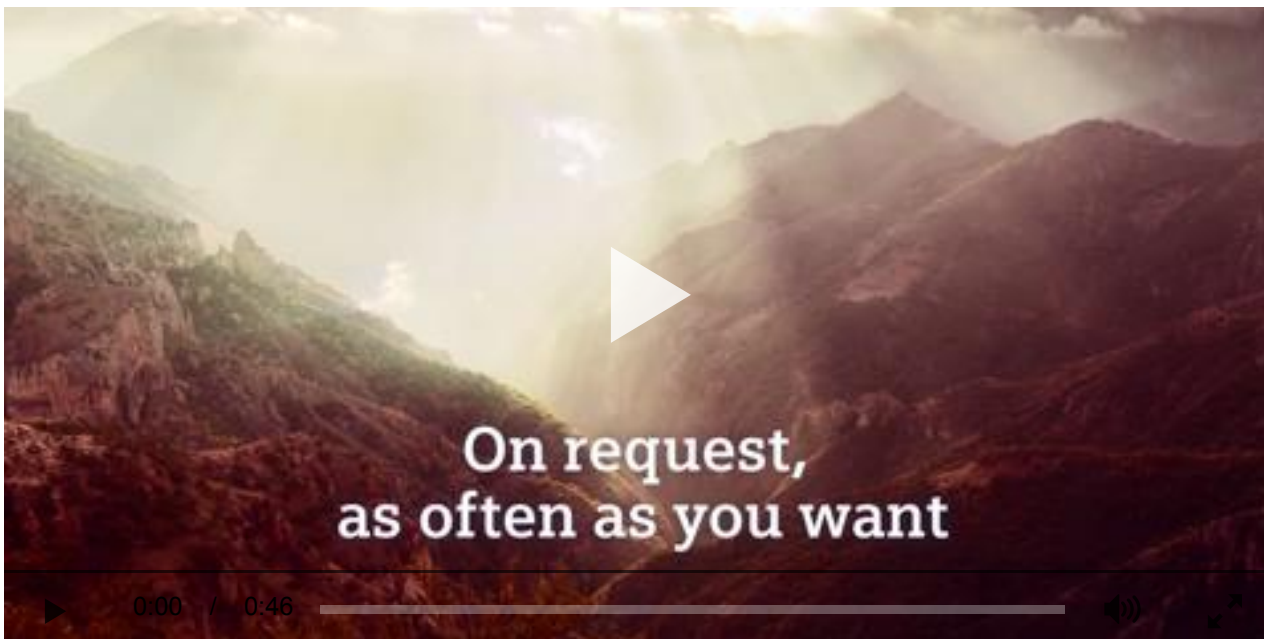
Overview

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> Description

The new SIMATIC RTU3030C is a compact, energy-self-sufficient Remote Terminal Unit (RTU). It can be used to monitor even the most remote measuring points – even in locations where no power supply or hard-wired communications infrastructure exists. Thanks to its optimized energy consumption, the SIMATIC RTU3030C requires no external power source. It supplies itself either from a battery or accumulator with solar panel. It uses mobile communication to transmit measurement values to the control center via the integrated UMTS modem.





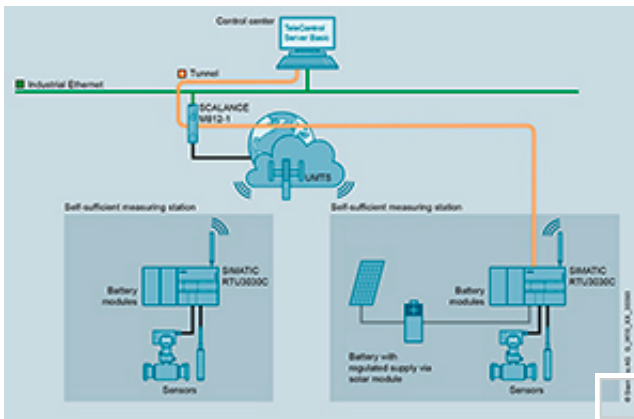
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Details

Designed for autonomous operation, the SIMATIC RTU3030C is particularly well suited for sites without a connection to a public power grid. It features a flexible power supply: any combination of batteries, accumulator, or a 12-24 volt DC connection can be used. The RTU functions reliably even under harsh conditions ranging from -40 to +70°C. With a protective external enclosure, it can even be used in areas prone to flooding (IP68).

The RTU records measurement values from connected sensors (e.g. level, flow, fill level, temperature, and 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. The communication parameters are freely adjustable. If defined values drop below a threshold or exceed it, the RTU reports this immediately via text message or e-mail. This enables service personnel to quickly respond to extraordinary events. Through the support of different protocols (TeleControl Server Basic, IEC 60870-5-104, and DNP3), the RTU can be flexibly connected to any SCADA system.

The RTU can perform data preprocessing to reduce the data volume and to simplify the data evaluation in the control center. A range of program module types (e.g. logic/time functions) are available for this purpose. From the control center, users can make adjustments to the configuration and perform firmware updates via a standard web browser, saving the costs of on-site service calls.



Configuration example: retrieval of data by the control center

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Benefits

Flexible power supply concept: battery, accumulator with solar panel, or 12-24 volt power connection – any combination

Optimized energy consumption: battery operation lasting several years is possible

Integrated UMTS modem provides for flexible choice of location independent of the communications infrastructure

Reliable operation in temperatures ranging from -40 to +70°C

External additional enclosure protects from flooding (IP68)

Easy configuration with the help of a standard web browser

Remote configuration and firmware updates possible via mobile communication

Flexible connection to any SCADA system through different protocols: TeleControl Server Basic, IEC 60870-5-104, and DNP3

Secured communication via OpenVPN, a secured tunnel of the TeleControl Server Basic or via encrypted e-mail

Data preprocessing for easier evaluation of data in the control center

Integrated analog inputs and digital inputs and outputs

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