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Siemens launches energy self-sufficient remote terminal units

- Wide ranging application across a range of industries including **agriculture, water/wastewater**, manufacturing, mining, oil and gas, etc.
- New independently operating remote terminal unit requires no local power supply or cabling
- Comprehensive distributed network protocol (DNP3) feature set
- Easy to configure without need for configuration software as the web browser does it all
- Reliable wireless transmission of readings converting information into smart data
- Reliable operations even under harsh conditions

Siemens launches energy self-sufficient remote terminal units (RTUs) for water/wastewater, agriculture and other industries with demand for wide area data monitoring and control. Siemens has extended its range of RTUs to include the Simatic RTU3030C, a compact energy-self-sufficient RTU. This solution further strengthens Siemens suite of capabilities in the water and wastewater industry.

The RTU works fully independently with a power supply provided by batteries or a solar panel, enabling its flexible use in varied fields of application such as the water and wastewater industry, agriculture or asset tracking. The device can be deployed in applications such as leak detection or for monitoring pumping stations or water

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storage facilities, measuring filling levels in tanks and silos or for irrigation systems used in agriculture. Users benefit from wireless access to key process data such as level, flow rate, fill height, temperature or pressure from distant measuring points.

Falk Hohmann, Siemens Business Manager, Industrial Communications says, "The launch of the Simatic RTU3030C is a natural extension of our expertise and specialisation in the water and wastewater industry. Through digitalisation and smart data, the RTU enables better utilisation of natural resources and more efficient infrastructure planning in anticipation of future growth.

"From small reading points in suburban communities to mines spread across hectares of land, the RTU can be set up without cabling and left to do its work with minimal human interface."

The RTU's robust design enables it to be used under the toughest of ambient conditions (-40 to +70°C). An additional enclosure with a protection rating of IP68 allows reliable operation even under flood conditions.

RTU's are often deployed over widely distributed areas, in many cases at measuring points without their own communication or power supply infrastructure. The RTU3030C collects measurement data from connected sensors which it transmits to a control center. It can be operated using up to two high-powered industrial batteries or a rechargeable battery (combinable with a solar panel). Users also have the option of connecting a 12-24 volt DC power source where this is available.

The RTU3030C can be operated in the sleep, update, communication and service mode. The power requirement in the sleep mode is below 2 milliwatts (mW), allowing reliable operation over a period of several years. The transmission of measured values to the control center uses the integrated UMTS modem over the

wireless network – with a secured OpenVPN connection or encrypted emails. Communication can be time or event controlled and also individually configured for each process value. The RTU3030C reports any values exceeding defined threshold levels immediately using SMS or email – even when in sleep mode – to enable a rapid response by service personnel. Users can switch the RTU3030C over to the service mode for maintenance operations such as exchanging batteries without loss of data.

The Simatic RTU3030C can be linked to the control system Simatic PCS 7 or to Simatic WinCC using the TeleControl Server Basic software package. Direct connection to Simatic PCS 7 TeleControl or Simatic WinCC/TeleControl is also possible using the telecontrol protocols IEC 60870-5-104 and DNP3. In this way, support for wide-ranging telecontrol protocols enables flexible connection to any optional SCADA systems.

For further information on the topic, please see www.siemens.com/rtu3030c
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