

## Grid automation products

# Intuitive insight for distribution systems

## RTU520 product line

Distribution automation product for power grids. Interface with your SCADA to obtain a complete understanding of the status of your grid on a distribution level with RTU520



RTU520 allows for the simple integration of renewables into your existing networks. Low power consumption saves costs for uninterruptible power supply and makes your installation greener. Highly customizable design enables the adaptation of input and output modules based on your application requirements.

### Your benefits

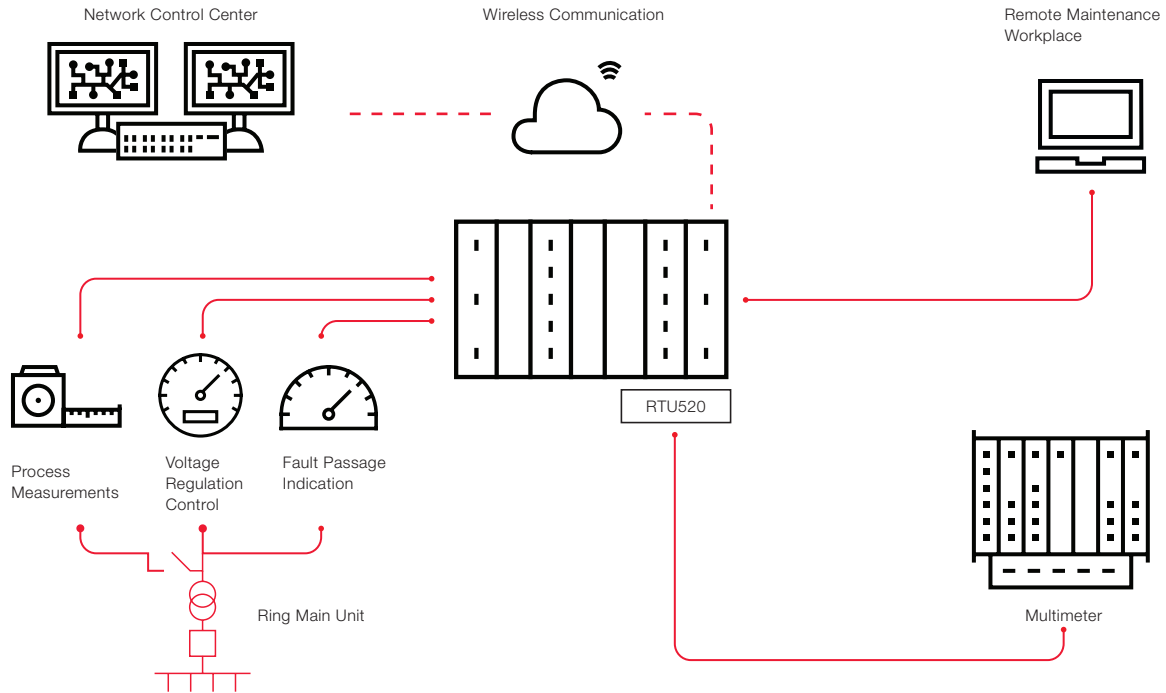
- Efficient footprint allows to fit the RTU520 into small control cabinets
- Intuitive handling allows faster project execution
- User friendly design enables your employees to work fast and efficient with the products
- Secure communication in public networks saves time and money and fulfills highest cyber security standards
- Customizable product solution adapts fast and simple to changing requirements

### Application examples

As your distribution network develops towards an intelligent network you will need more and more independent monitoring and control devices to handle all different tasks. With our RTU520 you will keep your costs down while ensuring a stable supply for your customers.

- RTU520 takes over the function of monitoring and control of switching devices for pole-top switch monitoring and control applications. The advantage for you is that you save costs for maintenance staff and that you will reduce the average outage duration for each customer (SAIDI).
- Recent developments bring distributed energy resources into the distribution grid and they need to be controlled in order to protect primary equipment and ensure power quality. With the RTU520 you can monitor and control the distributed energy resources (DER). This enables you to focus on the critical tasks of network management while the RTU locally controls DER.
- In the automation of secondary substation and ring main units, the RTU520 monitors and controls your transformer and intelligently handles loads.

## Application example



## Application areas

### Electrical distribution network

- Pole-top switch monitoring and control
- Capacitor bank automation
- Demand response management
- Automation of DER
- Energy storage
- Automation of secondary substation/ring main unit
- Transformer automation and control

### Oil and gas application

- Wellhead automation
- Pipeline supervision
- Monitoring and control of pumping stations

### Water distribution network

- Monitoring and control of water reservoirs
- Monitoring and control of pumping stations

### RTU500 series

#### Intelligence distributed across your power grid

Our RTU500 series brings the information from the physical power grid to your SCADA system. The modular Remote Terminal Units (RTU) are designed to meet your needs in transmission and distribution automation, enabling you to have the most efficient solution for your requirements. As with many of Hitachi Energy's products - our RTUs have been designed from the ground up with strong and resilient cyber security enabling you to communicate securely via all forms of networks - offering peace-of-mind and confidence in your network. Functional and hardware extensions can be realized easily and the complete series can be quickly engineered to your needs using our proven software tool enabling greater flexibility and cost savings in training.