

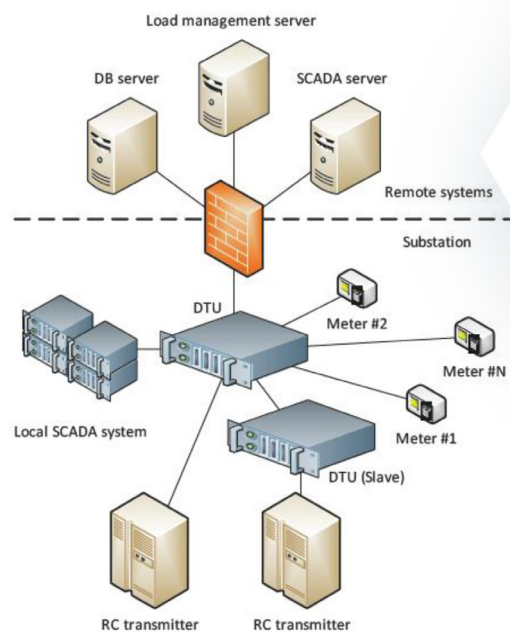
VARIOSTEP

Great solutions for the support of energy trading

VARIOSTEP is a product line for energy control and management. Applications and modules of the VARIOSTEP product line are intended for deployment in industrial environment. The VARIOSTEP solution consists of applications, devices and complexes assembled for individual functions. The VARIOSTEP solution offers a scalable SW and modular HW suitable for data collection, monitoring and control of the energy economy.

▶ DTU

Local control and telemetry unit.



On-line metering and load management functions

- ▶ Digital inputs, up to 128
- ▶ Digital outputs, up to 64
- ▶ Analog inputs, up to 36
- ▶ SO counter inputs, shared with digital inputs
- ▶ Event recorder
- ▶ Protocol storage up to 50.000 events
- ▶ GPS receiver for time synchronization

Ripple control functions

- ▶ Controller for all ripple control codes
- ▶ Local controller for ripple control installations
- ▶ Ripple control data processing
- ▶ Check-back from LV/MV/HW transmitter
- ▶ Pilot frequency generator with GPS receiver
- ▶ Built in check-back

Modular unit for building standardized ripple control and load management systems

User and communication functions

- ▶ General and communication alarm
- ▶ User defined outputs
- ▶ Advanced counter registers
- ▶ Remote supervisor
- ▶ Built in diagnostics and service interface
- ▶ Built in digital voltage and current meters with memory cells
- ▶ SCADA interface over industry standard protocols
- ▶ IEC 870.5.101 or IEC.870.5.104 support
- ▶ 1 x ETHERNET 100/10Mbit interface
- ▶ Optionally 3+1 x serial ports
- ▶ Optionally emergency display unit (LCD 16x2 chars)
- ▶ Optionally GSM/GPRS or analog modem support
- ▶ Optionally Master/Slave configurations
- ▶ Modular 19" rack design, natural AL chassis

A couple of words about us

We are a supplier of solutions for energy trading, energy and industry. Our solutions are aimed at energy suppliers, who provide their services to end clients, energy traders and energy management in industry. We have been on the market for 27 years and the Chartis report has recently included us in the elite club of **TOP 25 global technology players** on modern energy markets.

- ▶ EMC cover, air cooled
- ▶ Intake air temperature from +5°C to + 40°C (optionally up to + 50°C)
- ▶ Protection class IP30 (IEC 144, DIN 40 050)
- ▶ Humidity class F (DIN 40 040)
- ▶ Power supply AC 230 V / 50 Hz or DC 24 V
- ▶ Consumption 130W maximal, 85W typical
- ▶ Audio frequency range from 100 to 1500 Hz
- ▶ Standard dimensions: height 3U (132 mm), width 490 mm,
- ▶ Depth 250 mm (plus 50 mm connectors)
- ▶ Weight from 5,0 kg to 7,5 kg (configuration dependency)

Delivery options

- ▶ Mounted in rack cabinet/cubicle
- ▶ Extra IT solutions and connectivity
- ▶ 10" touch screen operator panel
- ▶ Previously installed relays circuits
- ▶ RS25, package for MV two coupling RC system
- ▶ RS115, package for HV single RC system
- ▶ RS36, package for mixed RC system
- ▶ Converters for ripple control transmitter monitoring
- ▶ Other on request

Other configurations and functions are available on your request.



Get to know our other product lines as well

XENERGIE

- ▶ Trading and business
- ▶ Data management and review
- ▶ Invoicing of end customers
- ▶ Group service to customers
- ▶ Predictions
- ▶ Optimization

XAURON

- ▶ Configuration of the HDO transmitter load management system
- ▶ Configuration of switched mode objects, creation of circuit diagrams
- ▶ System monitoring
- ▶ Operational responses