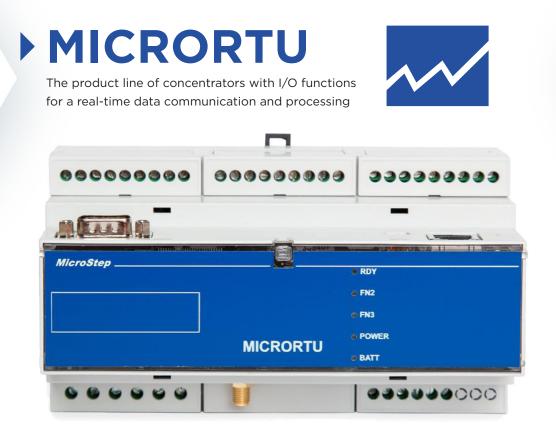# MicroStep-HDO®

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.

▶ MICRORTU

The product line of concentrators with I/O functions for a real-time data communication and processing

▶ The MICRORTU product line represents data concentrators with the integrated pulse coder function for an energy operation or industry segment. The MICRORTU concentrators are primarily intended for a data collection, data processing, and if required also for the subsequent communication with a superior SCADA system. MICRORTU concentrators enable communication through a local LAN interface or wirelessly through the optionally integrated GMS/LTE modem. MICRORTU concentrators can also be used for an industrial process control, HDO filtering and processing, building automation and manufacturing processes, or remote infrastructure supervision. MICRORTU concentrators allow you to perform local automation and other program functions. They are suitable for a mass data collection from electricity meters, water meters or other commodity meters.

▶ The product line can be combined with the MICROBOX I/O modules. MICRORTU concentrators are equipped with an operating system with a real-time extension. They allow to combine a data collection and communication with DLMS, IEC 870.5.104, IEC 870.5.101, MODBUS-TCP, MODBUS-RTU, MBUS and other protocols.

www.microstep-hdo.sk

Configurations of product line MICRORTU

MICRORTU, version 550.824

▸ 1 x serial line with galvanic isolation
▸ 1 phase filter of HDO signal
  on 2 frequencies simultaneously
▸ 12 x digital input, 6x digital output,
  2x analog input
▸ Optional integrated battery
▸ 1 x LAN
▸ Optional 1x GSM/LTE modem

MICRORTU, model C

▸ 4 x serial line with galvanic isolation
▸ 24 x digital input, 8 x digital output,
  10 x analog input
▸ 4 x LAN
▸ Optional 2 x GSM/LTE modem
▸ Optional additional calculation module

MICRORTU, version 550.823

▸ 2 x serial line with galvanic isolation
▸ 4 x digital input, 2 x digital output
▸ 2 x LAN
▸ 1 x GSM/LTE modem

Other configuration and features are
available on request.

MICRORTU, model N

▸ 1 x LAN
▸ 2 x digital input, 2 x digital output
▸ 1 x RS485 serial line
▸ Optional 1 x GSM/LTE modem

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.

MicroStep-HDO®

SMART
SAFETY
SOLUTIONS
SUCCESS

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

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