telemasteRTU battery powered RTU

Unit description

The unit is designed for remote data acquisition and remote control in objects without power supply in water industry and utilities. It is optimized for extremally low power consumption, which allows long life battery operation. Typical battery life cycle is more than one year for usual communication period (3 x daily for 2 minutes). It is as well possible to use external power supply 5-12 V DC.

RTU is installed in robust aluminium wall-mount housing with IP68. Front panel is equipped with magnetic contact for communication wake-up without necessity of opening the housing. The communication of unit can be evoked by change of value, limit, alarm, full buffer or periodically.

Basic features

- Compact and robust design with IP68 protection
- Expandable by external I/O modules
- Battery powered or external powered
- Simple configuration locally or remotely
- Integrated tool for battery lifetime estimation
- RTC synchronized from SCADA system
- Monitoring of battery status, temperature, GSM signal strength, logs

Technical specification

Battery power supply	2 × 3,6 V Li-$SOCl_2$ internal batteries or external battery box
External power supply	5-12 V DC
Digital inputs	4 × active or passive inputs, pulse counters 20 ms
Digital outputs	4 × 30 V / 50 mA (open collector)
Voltage inputs	2 × 0–10 V (overloadability 12,5 V), configurable measuring period
Current inputs	2 × 0–20 mA (overloadability 25 mA), configurable measuring period
Communication interfaces	Internal GSM/GPRS modem: DNP3
	RS-485: MODBUS RTU, master
	M-BUS: Master, max. 3 slaves
	USB: for local configuration only
Other properties	Integrated temperature sensor (range -25 to 70 °C, accuracy ±2°C), RTC synchronised with SCADA, magnetic contact for initialisation of communication
Battery lifetime	Min. 1 year at typical daily measurement and communication
Dimensions (without glands)	25 × 172 × 92 mm (W × H × D)
Operating temperature	-25 °C to 70 °C
Ingress protection	IP68

VAE CONTROLS, s.r.o., Namesti Jurije Gagarina 233/1, 710 00 Ostrava, Czech Republic
tel: +420 556 204 111, email: info@vaecontrols.cz, www.vaecontrols.cz