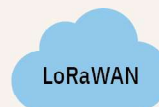


Overview



Intelligent pump controller and data acquisition device with LoRaWAN communication

Key Features

- Remote monitoring and control for decentralized sites with minimal I/O requirements
- No need for intermediate relays – directly operates and reads 230 VAC signals
- No battery replacements – 230 VAC input with integrated surge protection for maintenance-free power supply
- Converts 0–20 mA analog signals to digital and transmits wirelessly
- Quick and easy installation – suitable for outdoor and industrial environments

Typical Applications

- Control of wastewater packaged pumping stations (single pump)
- Motor condition monitoring
- Wireless transmission of 0–20 mA signals
- Optimization of pumping energy consumption
- Monitoring of power outages

Technical Data

Power Supply	90–240 VAC, 50/60 Hz, max. 7.5 W	
Communication	LoRaWAN EU868, internal antenna	
Inputs	2 x Digital Input (230 VAC) (*) <ul style="list-style-type: none"> • Input impedance approx. 1 MΩ @ 240 VAC 1 x Analog Input with galvanic isolation (*)(**) <ul style="list-style-type: none"> • Configurable measurement ranges <ul style="list-style-type: none"> ○ 0–100 mA, passive ○ 0–50 mA, active, 24 V • Minimum operating voltage (passive mode) <ul style="list-style-type: none"> ○ 3 VDC @ 20 mA ○ 5 VDC @ 100 mA 1 x Internal temperature sensor <p style="text-align: right;">(*) Protected against overcurrent and overvoltage (**) Available on CTRL-150 only</p>	
Outputs	Output Type 1 x NO/NC Relay	Load Capacity (*) 0.75 A @ 240 VAC, cos φ = 1 0.75 A @ 240 VAC, cos φ = 0,5 <p style="text-align: right;">(*) Protected against overcurrent and overvoltage</p>
Overvoltage Category	CAT III 300 VAC (per EN 62368-1), test voltage 8 kV	
Ingress Protection	IP 67	
Operating Temperature	-40 °C ... + 60 °C	
Storage Temperature	-40 °C ... + 60 °C	
Dimensions (W x H x D)	96 x 120 x 45 mm	
Country of Manufacture	China, Estonia	
Mounting options	Pole or wall mounting	
Installation Guidelines	Maximum altitude 2,000 m above sea level Installation must be performed by a licensed electrician	
Accessories (sold separately)	Current transformer	