

Cluey KM The configurable controller and monitor



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- Acquisition and processing of messages and counter values
- 8 digital inputs
- 8 impulse & operation hour counters
- 4 digital outputs
- 24VDC or internal battery supply
- LoRa®, mioty, 450MHz, NB-IoT
- IP65, wall and DIN rail installation
- Internal and external antenna for excellent radio performance

A variety of applications – only one device

The Cluey KM is designed for monitoring and control tasks in electricity, water or other infrastructure networks.

This device is perfectly suitable for the acquisition of digital messages and counter values. It has 8 digital inputs that can be individually configured.

The integrated signal processing (e.g. for message delay or inversion) allows optimal adaptation to suit the application. The 4 outputs can be used as static or as wireless outputs and can be controlled by radio connection.

Data transmission is event-driven with time stamps or/and cyclic, whereby the transmission interval and time can be synchronised precisely (suitable for accounting). Thanks to its power-saving design, the Cluey KM can achieve an autonomy of up to 10 years.

Due to predefined parameter sets, the Cluey KM can be easily configured for applications.



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A variety of task and one solution: Cluey KM

If you cannot find your application yet, please contact us! We can include further project-specific areas of application

Due to its functionality, flexibility and radio technology, monitoring and control tasks can be realised cost-effectively and economically:

- Detect failures sooner and
- Localise
- Capture consumption for optimisation record
- Transmission of short-circuit / earth fault messages from transformer stations
- Monitoring and controlling of EEG feed-in
- Recording of consumption and operating hours
- Object protection of facilities
- Monitoring of water meter shafts

Stand: December 2021 – technical modifications reserved.

| Inputs / Outputs | |
|-----------------------------|---|
| Configurable ports | 8 ports, each configurable as: <ul style="list-style-type: none"> • Digital input • Impulse counter • Operating time counter • 4 Digital output |
| Digital input | Switching threshold configurable as 1.5V or 12V |
| Impulse counter | <ul style="list-style-type: none"> • Max. 2Hz @ battery operation (only AM) • Max. 10Hz @ 24V operation • 2 pcs. High-speed counters up to max. 100Hz |
| Operation time counter | Configurable resolution 1s, 1min, 1h |
| Outputs | Output voltage (high): min. 12V or supply voltage (if higher) Output current (high): 50mA @24V-supply: 200mA total @Battery supply: 50mA total |
| Voltage supply | |
| External | 5 ... 32VDC |
| Internal battery | 3V Lithium battery, C-cell |
| Housing | |
| Dimensions | 55 x 11.5 x 9.5 mm (assembly area) |
| Installation | DIN rail & wall |
| Protection class | IP65 |
| Ports | |
| Inputs and outputs / Supply | Pluggable, 0.14 - 0.5 mm ² |
| Operating conditions | |
| Operating temperature range | -20°C ... +60°C |
| Relative humidity | 0 ... 95% (non-condensing) |

| | | | |
|---|--------------------------|---|---|
| USB interface | LoRaWAN® radio interface | LEDs & button | Power supply Reverse polarity & overvoltage protection stabilisation |
| Configuration | Microcontroller | Internal battery | |
| Counter 1...4 | Output 1...4 | Counter 5...8 | |
| Debounce Defutter Delay Invert | | Debounce Defutter Delay Invert | |
| Signal input / command output 1...4 | | Signal input 5...8 | |

Let things talk.