

Cluey AM/TM

The configurable controller and monitor for analogue measurements and temperatures



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- **Predefined application configurations**
 - **Power-, voltage- & temperature values**
 - **Time stamp & limit value monitoring**
 - **AM: 8 analogue-digital-combi inputs & 4 digital outputs**
 - **TM: 2*4-/4*2-wire PT100/1000 inputs & 6 digital inputs**
 - **Battery & 24VDC**
 - **LoRaWAN®, mioty, 450 MHz, NB-IoT**
 - **IP65, wall and DIN rail installation**
 - **Internal / external antenna**
- www.comtac.ch**

A variety of applications – only one device

Cluey is the perfect device for monitoring and controlling tasks in electricity, water and other infrastructure networks.

The two product versions Cluey TM and Cluey AM (in development) will support you in the acquisition and monitoring of digital and analogue values.

Maximum flexibility: inputs can be configured as 0...20mA-/0...10V analogue or digital/counter inputs. With the Cluey TM, flexible connections are also available, each for two-wire or four-wire versions of PT100 or PT1000 temperature sensors.

Each analogue value can be monitored to its limit. Circuit break and faulty status of the analogue values are signalled, digital inputs or limit value statuses can directly control outputs locally, without the intervention of superior technology. Event-driven (change of input status/ limit value violation) and dynamic (delta event) data transmission with time stamps.



Cluey AM/TM: The configurable monitor for analogue measurements and temperatures

Digitalisation of your infrastructure!

Just select the configuration that suits your application, wire the unit accordingly and set your individual parameters.

With the controller and monitoring intelligence already present in the Cluey, there is no need to programme! This saves time and tedious project work.

A variety of tasks but no solution?

Often there are measuring or monitoring spots in infrastructures that have not been implemented due to cost reasons. This is at the expense of availability in the case of interruptions.

Focus on use cases:

- Temperature monitoring in remote heating networks
- Filling level control
- Monitoring of compressor stations

Inputs / Outputs	
Configurable ports	Cluey AM: 8 pcs. / Cluey TM: 6 pcs., each configurable as: <ul style="list-style-type: none"> • Digital input • Impulse counter • Analogue input 0..20mA/10V • 4 Digital output (AM only)
Impulse counter	<ul style="list-style-type: none"> • Max. 2Hz @ battery operation (AM only) • Max. 10Hz @ 24V operation • 2 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
Temperature inputs	Configurable 2*4 wire- or 4*2 wire sensor PT100 or PT1000
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)

State: December 2021 – technical modifications reserved.

USB interface	LoRaWAN® radio interface	LEDs & button	Power supply Reverse polarity & overvoltage protection stabilisation
Configuration	Microcontroller	Internal battery	
Processing digital outputs: Static Impulse	Processing digital inputs: Debounce Defutter Delay Invert	Processing of counting inputs: Impulse counter Operating time counter	Processing analogue inputs: Limit value- Wire break- Fault monitoring
Ports: Digital inputs and outputs 0..20mA/0..10V analogue inputs			Ports (only TM): Temperature sensor 2-/4-wire PT 100/500/1000

Let things talk.