

PRODUCT DATASHEETS

MLGTB CUBE MODULE

Highlights

HIGH SECURITY

The MLGTB CUBE communicates with the TILLYS CUBE PLC via a secure RS485 bus (AES 128 bit), signed plus lifesign.

ADAPTABILITY IN BMS AT LOW COST

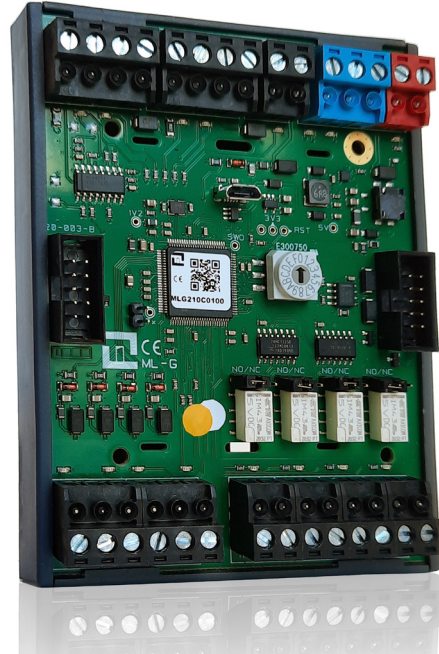
The different types of inputs and relay outputs make it flexible to different needs and reduce the number of modules needed and the after-sales stock. It is a functional complement that can be connected to a safe TILLYS CUBE and supervised by the MICROSESAME CUBE system.

OPTIMISATION OF CABINETS AND ENCLOSURES

The reduced size and power consumption of the MLGTB allow to reduce the number of cabinets and the dimensioning of power supplies and batteries.

Main features

- Inputs: 2 x 4-20mA, 2 x 0-10v, 4 x Counting/TOR of max 50 Hz, 1 AP
- Outputs : 4 relays
- 12 or 24 VDC power supply for flexibility and connection distance
- Quick-connect pad for easy connection of bus and power supply
- LEDs on all inputs, outputs and RS485 bus for easy commissioning and maintenance
- Plug-in terminal blocks positioned at the top and bottom of the board for easy wiring and maintenance



ACQUISITION AND TECHNICAL MANAGEMENT

The MLGTB CUBE specialised module is connected to one of the TILLYS CUBE PLC buses.

It allows to manage 2 analog inputs 4-20mA and 2 inputs 0-10v to collect data from various analog sensors (temperature, hygrometry, height, pressure,...). The analogue values returned by these sensors will be automatically linearised by setting the corresponding values on the TILLYS CUBE to 4mA, 20mA, 0V, 10V (e.g.: 4-20mA = 0-100°C) with possible alert thresholds to be supervised.

The 4 Counting/TOR inputs collect data from various counters (electrical consumption, etc.) or any technical TOR defects.

The 4 relay outputs allow multiple piloting & commands according to access events, intrusion detection,...: HVAC, heating (frost protection, economy, comfort...), air conditioning, time programming, hot water, lighting on access or intrusion,...

The MLGTB CUBE can be snapped onto a DIN rail and fitted with quick connectors for mounting in a cabinet. It can also be installed up to 600m away from the controller and integrated into a box fitted with a self-protection contact on opening.

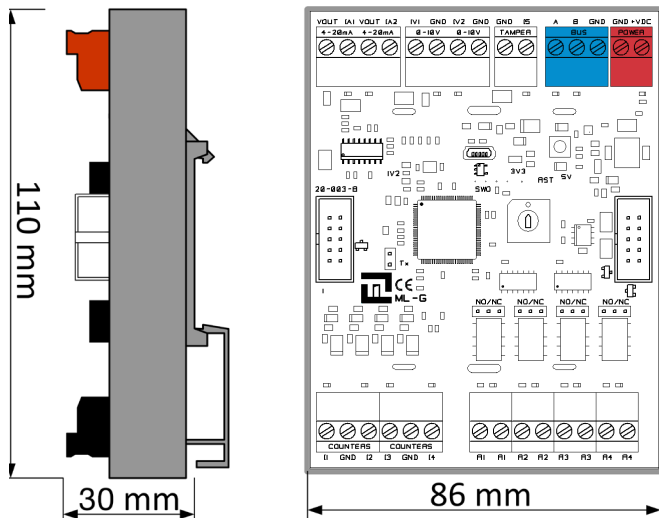
INTEGRATED BMS, INTRUSION AND ACCESS CONTROL SYSTEM

TILLYS CUBE CONTROLLER UNIT	POWER SUPPLIES & BATTERIES	SPECIALISED MODULES	RADARS & SENSORS	SENSORS & ACTUATORS BMS
				

MLGTB CUBE MODULE

Dimensions

Front and side view



Product references

DIN rail mount

- MLGTB-CUBE : BMS specialised module inputs and outputs, CUBE series (ANSSI securised buses), DIN rail mount

Case mount, add ref

- COF22 : White case with a metal structure and a plastic front panel, for installation and protection of specialised modules



Caractéristiques détaillées

- Power supply : 12 to 28 VDC
- Consumption : 30 mA
- Maximum number of modules per TILLYS CUBE bus: 16
- In-/outputs :
 - » 2 inputs 4-20 mA + 2 inputs 0-10V (automatically linearized by setting the corresponding values on the TILLYS CUBE to 4mA, 20mA, 0V, 10V (e.g.: 4-20mA = 0-100°C))
 - » 4 counts inputs 50 Hz max or digital
 - » 4 bi-stable relay outputs with NO and NF switch, 2A max, 48V max, 48 W max
 - » 1 input for self-protection
- Connections :
 - » Screw terminals for power supply (red), RS485 bus (blue), inputs or outputs (black)
 - » 2 HE10 ribbon connectors with TILLYS CUBE bus and power supply (2 A max)
- Signals : LEDs on the power supply, the buses and each input or output
- Protection against errors and sabotage : short-circuits, overvoltage and reverse polarity
- Din rail dimensions : 110 x 86 x 30 mm
- COF22 enclosure dimensions : H 220 mm x L 188 mm x P 40 mm
- Humidity : 0 to 95% non-condensing
- Operating temperature : -10 à +55°C
- Weight : 0,20 kg
- Compliance : CE, RoHS
- Environnement : very low consumption, suitable for HQE/BBC buildings

