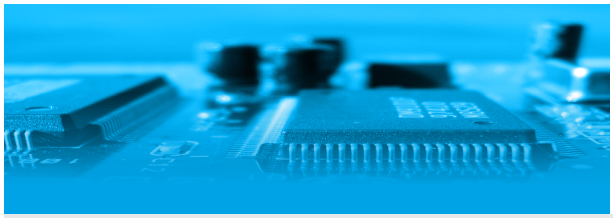
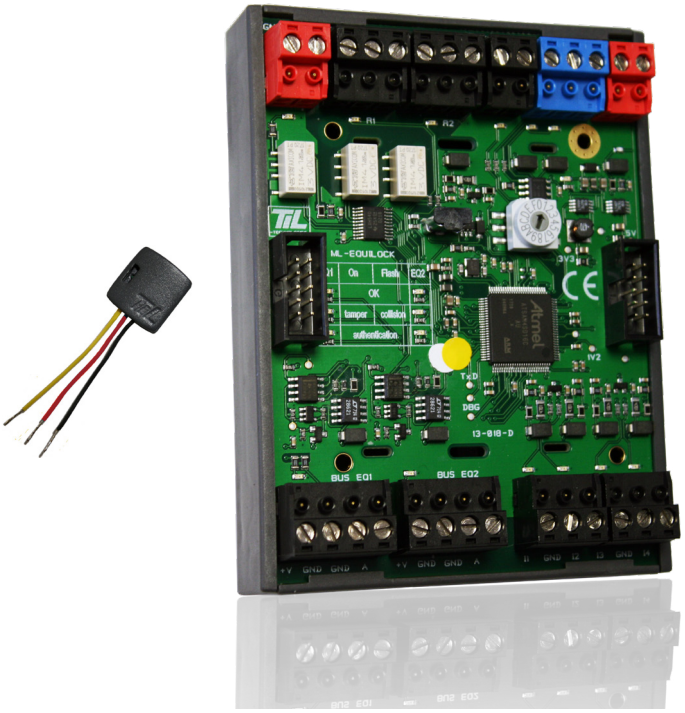
PRODUCT DATASHEET

ML-EQUILOCK MODULE





Highlights

SIMPLICITY
The wiring and installation time is reduced thanks to the bus topology. The bus does not require to be configured or adjusted.

SAVINGS
A single ML-EQUILOCK can manage 64 sensors. The number of deported modules is divided by 4, the power consumption and the size of boxes and power supplies are similarly decreased.
A specific register also enables the electric power supply for radars to be switched off excluding the monitoring period.

COMPLETE SECURITY
The encrypted digital communication, associated with the each transponder's unique identifier thus avoids listening to the bus, replay and sabotage.

Main features

- Each of the 2 buses present on the ML-EQUILOCK can accept up to 32 EQUILOCK transponders. The module can therefore manage up to 64 intrusion sensors.
- Each bus can stretch to a length of 300 m, a total coverage of about 600 m.
- It is not required to configure or adjust the bus.
- The ML-EQUILOCK deported module detects the bus short-circuit and when it is switched off.
- In the event of physical failure, each bus can be looped to limit the risk of losing the connection.

Secure intrusion sensors

The ML-EQUILOCK module allows information to be transmitted from intrusion sensors (detection and self-protection).

The module is presented with transponders, which forms a unique system.

EQUILOCK transponders are small watertight modules (less than 1 cm3) that can be easily integrated into sensors in place of balancing resistors.

The advantage of this system is that with an EQUILOCK transponder on each sensor, the sensors are able to communicate on a single self-powered, secure bus connected to the TILLYS NG control unit.

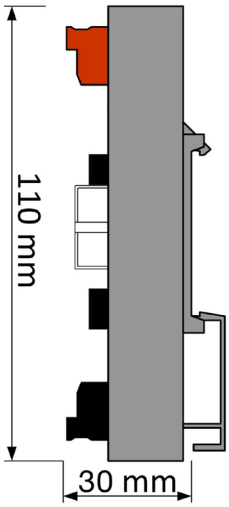
Each transponder has a unique identification number and the data transmission with the ML-EQUILOCK is encrypted.
Any attempt at sabotage is immediately detected.

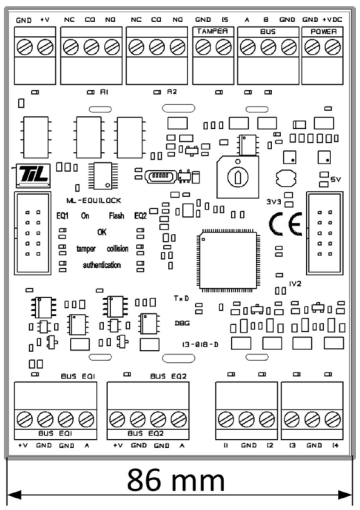
Two versions of this module are available : MLCK or MLCKS in the case of a communication on a securized ANSSI bus.

ML-EQUILOCK MODULE

Dimensions

Front and side view





Technical details

- Power supply : 10 V / 28 VDC
- Power consumption: 30 mA + 3mA per transponders
- Bus : RS 485
- Dimensions : H 110 mm x L 86 mm x D 30 mm
- Connections : plug-in screw terminals
- Contact distance between EQUILOCK bus and sensors : 300 m
- Contact distance between EQUILOCK bus and TILLYS NG : 600 m
- Maximum number of inputs : 32 per bus (total of 64)
- Relay outputs: 2 bi-stable relay outputs with NO and NC switch, max. 2A, max. 48V, max. 60 watts
- Humidity : 0 - 95% without condensation
- Operating temperature : -10°C to +55°C
- Attachment : DIN rail or COF22 unit
- Number of modules that can be connected per TILLYS NG : Depending on the number of EQUILOCK transponders connected to the ML-EQUILOCK modules, it will be possible to connect from 4 to 16 modules
- Weight : 0.26 kg

Transponders integration

- Dimensions : 14x12x5 mm (head) + 45 mm cables (3)
- Assembly example : inside a radar

Product references

Module

- MLCK-RD : ML-EQUILOCK intrusion module for TILLYS NG, 2 buses with 32 transponders, for DIN rail assembly
- MLCKS-RD : ML-EQUILOCK intrusion module for TILLYS NG (securized ANSSI bus), 2 buses with 32 transponders, DIN rail mounting

EQUILOCK Transponders

- PROG-EQUILOCK : Programming tool for EQUILOCK transponders adressing
- EQUILOCK-10 : Set of 10 EQUILOCK transponders, free adressing Quantity : 5 set or more

Case

- COF22 : Case with white plastic front and metal back, 220x188x40 mm + tamper protection kit

Sales Contact : sales@til-technologies.com

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