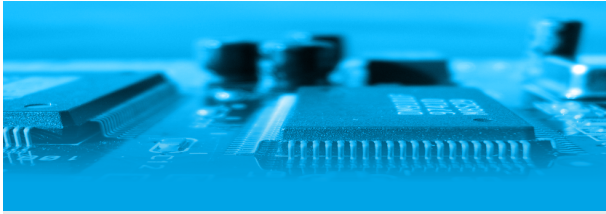




PRODUCT DATASHEET

MLP1S - MLP2S READER MODULES



Highlights

CERTIFICATION FIRST LEVEL OF SECURITY, ANSSI

The MLPS modules communicate via a secure RS485 bus with the EVOLUTION readers and with TILLYS NG controller unit (AES 128 bits).

They include a SAM/HSM module : a safety deposit box EAL 5+ certified. They are also protected against sabotage or mishandling. Protected firmware downloadable.

COMPLEX ACCESS AND INTRUSION

The configurable inputs of the MLPS enable information feedback of both access control (door monitoring, push buttons, glass breakage case) and intrusion points.

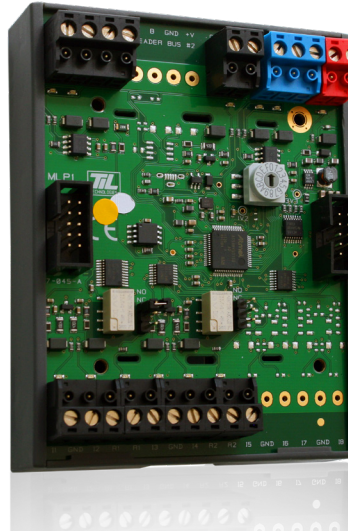
OPTIMIZATION OF LOCKERS AND BOXES

The reduced size and low energy consumption of the MLPS modules require less cases, power supplies and batteries.

Main features

- 12 or 24 VDC power supply for more flexibility and improved connection distances
- Fast ribbon cable for easier connection between the bus and the power supply
- Dedicated RS485 bus for card readers
- Configurable inputs (balanced, discrete...) including tamper protection
- NO or NC relay outputs
- Firmware and driver downloadable from the TILLYS NG controller unit via the RS485 bus
- Easier installation and maintenance with LED on all inputs, outputs and RS485 bus ports
- Pluggable screw terminal strips on the top and the bottom of the card for easier wiring and maintenance

SAM / HSM



Flexibility and Security

The MLPS specialized modules connect on one of the secondary bus of a TILLYS NG controller unit.

The MLP1S enables managing 1 reader.

The MLP2S enables managing 2 readers on 2 access, or 1 access with 2 readers input/output.

Mounted on DIN rail, and equipped with fast connectors for case mounting, MLPS can also be remotely connected at a maximum distance of 600 meters from the controller unit and installed in a case with tamper protection.

Associated to the EVOLUTION readers, these modules have been designed to respond to security recommendations at a high level, to manage "transparent reader" mode which keys are stored in the MLPS SAM/HSM module, ensuring privacy. Readers do not store any key (ANSSI highest protection architecture).

The MLPS manages the readers pull-out detection (by trigger an alarm).

MLPS can read simultaneously up to 4 types of DESFIRE EV1 badges on the same site. Interesting when various populations use badges with different mappings (ex: ministerial badges for employees and specific badges for subcontractors).

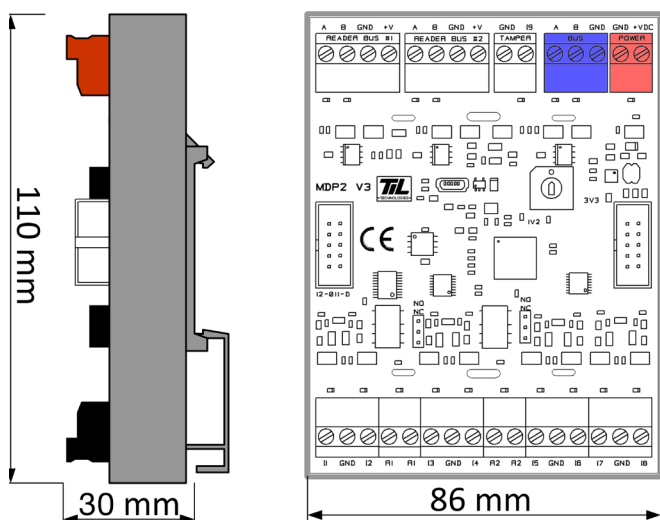
INTEGRATED BMS, INTRUSION AND ACCESS CONTROL SYSTEM

TILLYS NG CONTROLLER UNIT	POWER SUPPLIES & BATTERIES	SPECIALISED MODULES	RADARS AND SENSORS	ACCESS CONTROL READERS

MLP1S - MLP2S READER MODULES

Dimensions

Front and side views



Product references

DIN rail mount

- MLP1S-RS485-RD : MLP1S specialised module, NG series, connection of 1 RS485 readers, 5 inputs, 2 relays, Din rail mount
- MLP2S-RS485-RD : MLP2S specialised module, NG series, connection of 2 RS485 readers, 9 inputs, 2 relays, Din rail mount

Case mount

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



Technical details

- **Power supply** : 10 to 28 VDC
- **Consumption** : 30 mA
- **Reader technologies** : Only 1 protocol is available for each module, among those available in the TILLYS NG PLC allowing to manage these readers in RS485 to 300m :
 - » Transparent EVOLUTION readers (SSCPv1, SSCPv2 certified high security ANSSI)
 - » DEISTER readers transparent (debus secure)
 - » HID readers transparent (OSDP secure V2)
 - » Readers described in the MLD product datasheet
- **Badge technologies** : The same protocol can be used to manage both ISO14443-A and B badges depending on the reader capacity.
 - » ISO14443-A MIFARE Classic (without OSDP)
 - » ISO14443-A DESFIRE EV1 (without OSDP)
 - » ISO14443-A, EV2
 - » ISO14443-B (without OSDP) (SSCP can identify A or B technology)
 - » Those described in the MLD product datasheet
- **Maximum number of readers per TILLYS NG bus** : 8
- **Maximum number of modules per TILLYS NG bus** : 16
- **Inputs** : Configurable inputs, 1 including pre-set tamper protection. Balanced inputs offers many sets of resistances possible by TILLYS NG
- **Relay outputs** : 2 bi-stable relay outputs with NO or NC switch, 2A maxi, 48V DC/AC maxi, 48 W maximum
- **Connectors** :
 - » Colored screw terminal strips for power supply (red), bus RS485 (blue) and inputs (black)
 - » 2 HE10 cable connector for bus and power supply (2 A maxi)
- **Signaling** : Leds for power supply, bus and input/output
- **Protection against sabotage or mishandling** :
 - » Short circuits, overvoltage and reverse polarity
 - » Resettable fuse on the embedded reader power supply
- **Dimensions (DIN rail)** : 110 x 86 x 30 mm
- **Dimensions (COF22)** : H 220 mm x L 188 mm x P 40 mm
- **Humidity** : 0 to 95% without condensation
- **Operating temperature** : -10°C to +55°C
- **Weight** : 0,20 kg
- **Compliance** : CE, RoHS

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