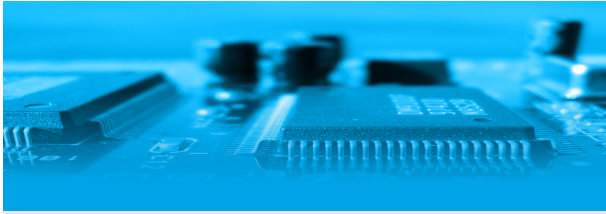# TiL TECHNOLOGIES
PRODUCT DATASHEET

TILLYS NG

SECURITY VISA

Highlights

CERTIFICATION FIRST LEVEL OF SECURITY, ANSSI

TLS Encrypted IP Communications (certificates, life signal) from MS 2018.
Bus RS485 MLv3, ANSSI certified, encrypted AES 128 bit with automatic modification and regular keys, life signal. TILLYS NG's firewall protects against DoS attacks. Secure web server access (HTTPS, SSH disabled by default). Compatible 802.1X. Protected firmware downloadable, including known vulnerability patches (CVE).

HIGH AVAILIBITY

Direct inter-TILLYS NG communication over IP (antipassback, servo...).The controller runs in standalone mode all the time. In case of loss of communication with MICRO-SESAME, it keeps a log of the last 10,000 events.

ELECTRICAL PROTECTION

RS485 inputs and buses are protected against short circuit, overvoltage and reverse polarity.

Main features

- 12 or 24 VDC power supply for more flexibility and improved connection distances
- 3 RS485 bus ports, 1 extended on a fast ribbon cable, for power supply propagation
- Capacity for 2 additional daughter boards allowing functional upgrades (RS...)
- Easier configuration via embedded web server
- Up to 3 functional modes : ML v3 modules (standart security or high security), MDv2 or APERIO, differentiated on each bus
- 3 configurable inputs (balanced, discrete…), 1 including pre-set tamper protection
- USB port for Zebra locale printer (ex : ticket printed for piedestran zone access in the city center)
- Suitable protocole SNMPv3 for network status monitoring operated by the DSI

Intrusion & Access control

TILLYS NG is a programmable multifunction IP controller unit used for intrusion detection, access control and Building Management Systems.
TILLYS NG is integrated in the MICRO-SESAME centralized monitoring system.

Depending on the features or detection technologies used, different specialised modules may be associated to the TILLYS NG.
MLv3 modules may be easily connected using one of the three RS485 bus provided using a metal case, or may be remotely connected at a maximum distance of 600 m, using a completely open wiring topology (mesh, bus, star topologies) wich allow an optimum take up of existing cable.

In intrusion mode, additional equipment and specific options are available: keyboard with screen, remote monitoring operator transmission, daughter boards, WIFI keys or 4G…

TILLYS NG can manage up to 24 access (and their auxiliary equipment) and up to 10 000 IDs. The XL option extends this capacity up to 600 000 IDs (depending on the number of readers).
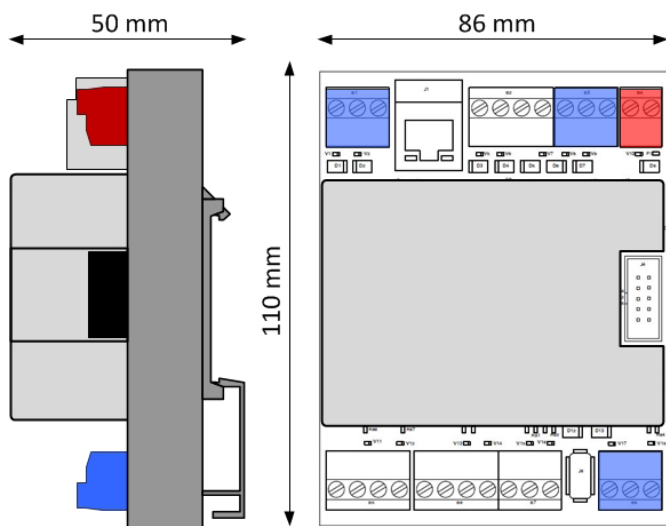The LIFT option enables the elevator management function.

INTEGRATED BMS, INTRUSION AND ACCESS CONTROL SYSTEM				
TILLYS NG CONTROLLER UNIT	POWER SUPPLIES & BATTERIES	SPECIALISED MODULES	RADARS & SENSORS	ACCESS CONTROL READERS

TILLYS NG

Dimensions

Front and side views

Product references

- **TILLYS8-NG :** Monitored TILLYS NG control unit - 8 readers / 1 bus :
  Managing a maximum of 8 readers via specialised modules, on 1 bus, 10 000 IDs, IP network connection to MICRO-SESAME

- **TILLYS16-NG :** Monitored TILLYS NG control unit - 16 readers / 2 buses :
  Managing a maximum of 16 readers via specialised modules, on 2 buses (A and B), 10 000 IDs, IP network connection to MICRO-SESAME

- **TILLYS24-NG :** Monitored TILLYS NG control unit - 24 readers / 3 buses : Manages a maximum of 24 readers via specialised modules, on 3 buses, 5000 IDs, IP network connection to MICRO-SESAME

- **NG-TIP option :** Activation of the alarm IP transmission towards monitoring operators

- **NG-XL option :** Capacity upgrade for up to 600 000 IDs.
  Caution : Cabin readers (elevators) count double (see calculation examples on the right)

- **NG-LIFT option :** Actives management fonction for two elevator readers (positioned as readers 1 & 2 of bus A)

- **NG-CF-POE :** Daughter board, allows PoE 13 W power supply (IEEE 802.3AF) with battery charger function 0.8 Ah

- **NG-CF-RS :** Daughter board, used for driving MDT2

Technical details

- **Power supply :** 10 to 28 VDC
- **Consumption :** 60 mA
- **Network communication :** Base T 10/100 Mb Ethernet card (static IP or DHCP), 802.1x, IPV6 ready, SNMP v3 (network status)
- **RS485 bus communication :** 57600 bauds, module connection distance of up to 600 m for modules, AES 128 bits encryption
- **Maximum number of readers :** 8 per bus (max bus number: 3)
- **Maximum number of modules :** 16 per bus (max bus number : 3)
- **Maximum number of keypads :** 8 per bus (max bus number : 3)
- **Maximum number of sirens :** 8 per bus (max bus number : 3)
- **Number of points :** Up to 256 inputs or 128 outputs per bus
- **Maximum numer of users (unsupervised mode) :** 150
- **Alarms groups :** 32
- **Calendar :** 128 time schedules
- **Connectors :**
  - » 1 RJ45 connector
  - » 1 USB connector
  - » Colored screw terminal strips for power supply (red), RS485 bus (blue) and inputs (black)
  - » 1 HE10 cable connector for A bus and power supply (2 A maxi)
- **Inputs :** 3 configurable inputs: discrete, incoming, balanced up to 6 status, including 1 input for tamper protection.
  Balanced inputs offers many sets of resistances possible by TILLYS NG
- **Reports :** Leds for power supply, network, bus and inputs
- **Dimensions :** 110 x 86 x 50 mm
- **Operating humidity :** 0 to 95%
- **Operating temperature :** -10 to +55°C
- **Weight :** 0,25 kg

Reader / ID capacity

Calculating ID capacity with the XL option :
- **Ex 1 :** 1 access reader, 600 000 IDs
- **Ex 2 :** 2 access readers 300 000 IDs
- **Ex 3 :** 10 access readers 60 000 IDs,
Caution : Cabin readers (elevators) count double :
- **Ex 4 :** 2 cabin readers, 150 000 IDs
- **Ex 5 :** 8 access readers + 2 cabin readers, 50 000 IDs

Sales Contact : sales@til-technologies.com

SECURITY SYSTEMS

www.til-technologies.com

TiL TECHNOLOGIES