# **TITANIAPLUS** systems

Coordination, control and security in building processes

MEL.MOJ	TITANIA
	at 100 mg





## TITANIAPLUS systems

#### From intrusion detection to building automation

With TITANIAPLUS panels, EL.MO. SpA issues a new challenge in the integrated management of security solutions for bank, business districts, industrial, and commercial applications.

TITANIAPLUS represents the ideal tool to integrate security into building automation systems thanks to the system of programmable logics. TITANIAPLUS is based on Linux<sup>®</sup> OS and a flexible and expandable hardware: it sets itself as the core of security systems ensuring the integration of more complex structures (also third parties') able to perform all the functions required by building systems.

Among the several functions of TITANIAPLUS systems, two features stand out in particular: the presence of both ULTRABUS and 2xLAN interfaces. ULTRABUS (RS485) serial interfaces ensure direct connection and remote configuration of all EL.MO. addressable products equipped with such interface. The two LAN interfaces allow to integrate TITANIAPLUS with both EL.MO. (i.e. GLOBALPRO) and third-party supervision systems for 24H complete monitoring.





#### Installation fields

TITANIAPLUS systems represent the technological evolution of security systems for post offices, banks, commercial and industrial applications; they stand out for their advanced management functions suitable for multisystems solutions.

The great processing and managing capacity of TITANIAPLUS allows to control and manage the functioning process of buildings. Since its excellent dynamic properties, such capacity can also develop in time in order so to adapt itself to the evergrowing requirements of markets.

As an example, we can mention the case of adding new rooms/functions to an already existing building/system with the consequent need of extending the control system capacity.





## The control of complexity

In functional processes, complexity represents an important feature of efficiency and competitiveness, on condition that it comes with an adequate control and managing capacity.

Besides managing security and supplies typically controlled by the domotic systems, such as water, gas, and energy supply, TITANIAPLUS systems are able to detect and control, through special sensors, the specific functions of the production: emitted fumes, gas valves, flooding pumps, air treatment, and access control with a virtually unlimited development potential.

In conclusion, TITANIAPLUS are complex systems to manage complex structures at best, also directly from client positions thanks to the interfaces they are equipped with (PSTN, GSM, and LAN.)



Industrial applications



Commercial applications



Installation applications

Banks applications



Business districts



## **Zones and Outputs**

TITANIAPLUS panels feature 16 NC / triple / double balanced zones on main board, expandable up to 1024, also wireless with RIVERRF optional modules and 16 electronic outputs on main board, freely programmable, expandable up to 1024 (with ETRREL optional module.)



### **ULTRABUS** interfaces (RS485)

TITANIAPLUS panels are equipped with two ULTRABUS interfaces (RS485 serial lines) to connect concentrators, control devices, detectors, sirens, and other compatible devices. The state-of-the-art of EL.MO. technology is represented by devices via ULTRABUS: they integrate advanced functions (such as remote programming) that highly increase the performance level of intrusion detection systems.



#### **Communication interfaces**

TITANIAPLUS panels are equipped with the following interfaces:

- RS232: for remote programming from PC and for connection to centralized systems.
- 2 x LAN ports used for the connection to centralized and/or supervision systems (GLOBALPRO, e-Connect or third-party software.)
- GSM: ETRGSM optional module for remote control, remote interrogation, and SMS texting
- PSTN: MDPSTN optional module supporting the connection to analogue phone lines.
- VOICE: MDVOICE voice interface module (optional) for voice transmission and remote interrogation.



## Multi-protocol panels with digital dialler

The panels support several communication protocols for centralized systems.

- 3 x CEI 79-5, 79-6 (CEI-ABI) level 3 for data protection (cryptographic, authentication and users recognition.)
- Fast and Slow Formats.
- ADEMCO ID-CONTACT.



#### **System Management Functions**

- Events: TITANIAPLUS panels are able to store up to 8192 events.
- User codes: ETR G2 panels can memorize up to 256 x 6-digit user codes (definable); users can also be assigned proximity readers.
- Multi-area management: management of 8 areas each including 4 zones for a total of 32 detector groups.
- Weekly / Yearly programmer and overtime management: weekly / yearly programmer with 24 programs for holidays management, automatic standard / DST switching, activation windows, and advanced overtime management.
- Guard round function: possibility to enter a facility for a guard round (tour) while control panels are armed. No need of disarming them, as long as a specific path is defined.
- System test function: automatic memo for periodic operating test of zones, outputs and dialler.





#### **Control devices**

TITANIAPLUS panels can manage up to 32 control devices (keypads, readers, etc.) They can also manage the access areas or the whole system using electronic proximity keys or card readers / personal codes.



#### Integration with wireless peripherals and detectors

With the use of RIVERRF/RIVERRFPLUS concentrators, TITANIAPLUS panels can receive signals coming from wireless remote controls and detectors.



#### **Access control**

The access control function is performed by TITANIAPLUS panels in combination with ETRVARCO optional module: it allows to manage people passages through doors or sensitive accesses that must be strictly controlled. Authorized users can use the door or access in both ways (IN and OUT), and when further authorized, they can also arm/disarm defined areas and sectors.



## **Configuration browser and supervision systems**

All panels can be controlled from PC both by end-users and installers by using different software applications. The panels can be fully programmed from PCs connected directly and/or remotely with BrowserOne remote assistance software installed. Using the 2 LAN ports the system can be managed over TCP/IP networks to control the whole system by a single PC and the IP connection allows TITANIAPLUS panels to be controlled by 2 supervision systems simultaneously (GLOBALPRO or third parties'.)



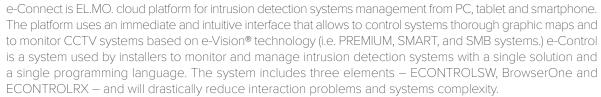
#### Access control interface

Environments protection with TITANIAPLUS panels may also include the control of accesses. The panel, through ULTRABUS interface, supports the connection of ICON100AVR controller modules (optional) able to manage the access control of sensitive doors/gates via proximity or biometric readers.



## e-Connect, e-Control and GLOBALPRO



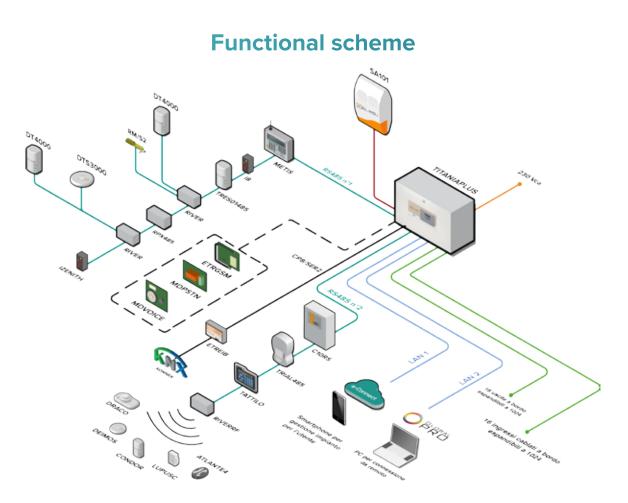


In addition, EL.MO. also offers a new advanced tool for supervision: GLOBALPRO. GLOBALPRO is the supervision software which combines in a unique tool ease of use and high-level performance for H24 monitoring of EL.MO. systems status: intrusion / fire detection systems and CCTV systems, both local and remote. It consists of a single application that manages advanced monitoring and control functions rapidly and effectively – also using various monitors – thanks to interactive step-by-step menu windows.

## TITANIAPLUS systems

Control unit	TITANIAPLUS					
Product code	CCTIT0100400					
Number of zones	16 triple balanced / double balanced / NC expandable up to 1024					
Number of electronic	16 electronic outputs expandable to 1024 (freely programmable)					
outputs						
Relay outputs ULTRABUS (RS485)	1 for General Alarm and 1 for Tamper.					
serial lines	2 ULTRABUS (RS485) lines for concentrators and control devices and compatible devices.					
RS232 serial lines	1 RS232 line for programming via PC and for connection to centralizations according to CEI 79-5, 79-6, 79-7.					
CEI 79-5 79-6 centralization	3 CEI/ABI simultaneous connections with independent configurations, 2 on LAN and 1 on RS232 serial line, with FEALNX 64bit and 128bit cryptography.					
Multi-area						
management	8 areas with 4 sectors each, resulting in 32 groups of detectors.					
Programming User code	Via keypad and PC in direct and/or remote connection using BrowserOne. 256 user codes, each one 6 digits long, and/or proximity key reader.					
MFT management	32 Multi Function Timer for optimized and programmed electronic outputs management.					
Keypads management	Max 32 devices (ANIMA, METIS, Tattilo, TATTILOPLUS, Nirva, Midas, IZENITH, ETR-VARCO, ETRZENITH, I8, PASSLIGHT)					
Proximity key readers	Up to 4 I8, I66 or I7 readers for each keypad.					
wiring Electronic keys	Management of proximity keys with more than 72 million billions combinations and magnetic cards with optional BAXI					
management Additional supervised	readers. Complete management of the additional power supply units that can be remotely connected via ULTRABUS (battery status					
power supply units management	check, power supply unit failure signalling, mains failure signalling, power supply unit tamper signalling). It can be also managed using the 20 SMS messages.					
Weekly/yearly programmer	Weekly/yearly programmer featuring 24 programs and holiday management, changeover between Daylight Saving Time and Standard Time. Overtime management.					
Events log	Ultimi 8192 eventi memorizzati in memoria non volatile (FIFO)					
Digital communication Voice communication	Built-in multi-protocol communication module for digital transmissions using the Fast Format and ADEMCO ID-CONTACT protocols.					
GSM communication	Voice and remote interrogation transmissions using the MDVOICE optional board; 30-minute time can be freely programmed and divided in several messages. ETR/GSM Dual Band optional module with SMS remote interrogation function, more than 16.000 SMS messages can be					
	sent.					
Remote assistance Radio detectors	Via PSTN optional MDPSTN module at 33600bps, Via GSM optional ETR/GSM module at 9600bps.					
management	Via RIVERRF/RIVERRFPLUS, that can receive the signals coming from Helios-VILLEGGIO remote controls and sensors.					
Videographic management	It can be controlled using GLOBALPRO / GPROINTRUSION videographic software and SOFTHISTORY events memorization software.					
"Guard round" function	Guard round with path definition.					
Gateways control function	Gateways control using sofware and hardware applications; command for door opening available by proximity cards reading.					
Access control function	Management of advanced access control systems with RF cards based on the ICON100AVR controller and related accessories, with hour and date sincronization.					
Battery	24Ah, 40Ah or 50Ah / DC12V					
Dimensions and weight	W 525 x H 380 x D 280 mm, weight 12 kg					
Operating temperature	-10 ÷ +55 °C / 93% % Rh					
Maximum current draw from mains (AC230V)	0.58 A					
Main board current draw	250 mA max					
Power supply unit	7 A					
Power supply	AC230V, 50Hz					
Regulations	IMQ-Alarm certification EN50131-3:2009 grade 3 environmental class II, EN50131-6:2008					





## e-Connect

#### Web platform for security systems

e-Connect is the cutting-edge platform to manage, supervise, and realize centralizations with EL.MO. intrusion detection systems for end-users, installers, and distributors. E-Connect allows to:

· Control systems elements status: power supply, battery, alarms;

App Store

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- · Enable and disable devices by touching map icons;
- Display system video surveillance cameras directly on smartphones and tablets;
- Enable and disable system areas;
- Receive real-time information on events;

ogle Play

• Manage various systems by a single account.



GLOBALPRO is the supervision software which combines in a unique tool easiness and high-level performance for H24 monitoring of EL.MO. local and remote systems status: intrusion / fire detection systems and CCTV systems.

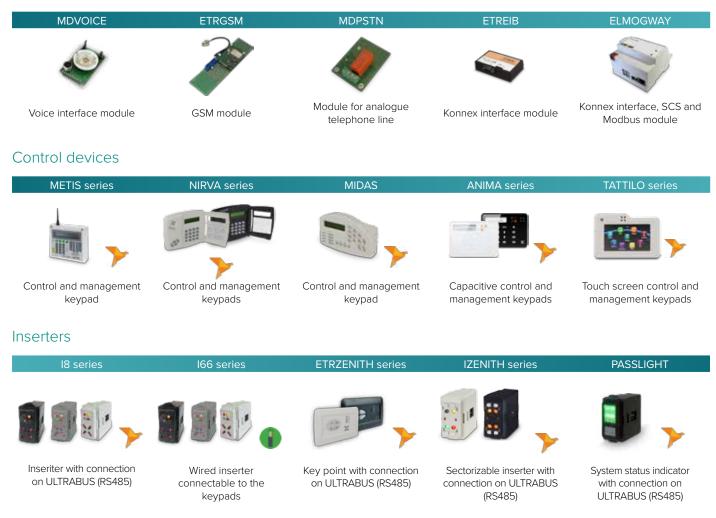
- Intrusion detection: based on TITANIA and ETR series panels using CEI-ABI protocol.
- · Fire detection: based on FX / Tacóra series panels;
- CCTV: e-Vision<sup>®</sup> PREMIUM and SMART series DVRs and NVRs.
- VCA systems: based on Mirasys software.



#### **TITANIAPLUS** systems

#### Compatible devices

#### Modules



#### Concentrators and repeater



Outdoor wired sirens

Outdoor sirens with wired or ULTRABUS (RS485) connection. Integrated voice synthesis functions (LEDA485VOX)



#### Detectors



#### Power supply units

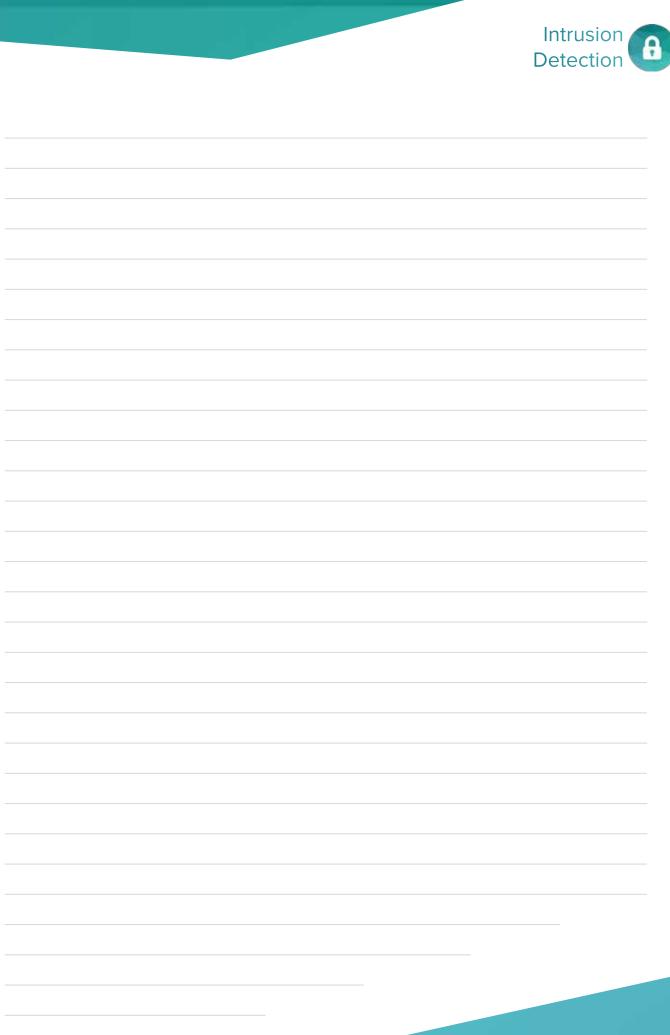


Other accessories



👂 Wireless 🛛 🜑 Wired

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