

TITANIAPLUS systems

Coordination, control and security
in building processes





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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® 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 ever-growing 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.)

Installation applications



Industrial applications



Commercial 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

e-Connect is EL.MO. cloud platform for intrusion detection systems management from PC, tablet and smartphone. The platform uses an immediate and intuitive interface that allows to control systems thorough graphic maps and to monitor CCTV systems based on e-Vision® technology (i.e. PREMIUM, SMART, and SMB systems.) e-Control is a system used by installers to monitor and manage intrusion detection systems with a single solution and a single programming language. The system includes three elements – ECONTROLSW, BrowserOne and ECONTROLRX – and will drastically reduce interaction problems and systems complexity.

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.

Control unit	TITANIAPLUS
Product code	CCTIT0100400
	 
Number of zones	16 triple balanced / double balanced / NC expandable up to 1024
Number of electronic outputs	16 electronic outputs expandable to 1024 (freely programmable)
Relay outputs	1 for General Alarm and 1 for Tamper.
ULTRABUS (RS485) 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	Via keypad and PC in direct and/or remote connection using BrowserOne.
User code	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 wiring	Up to 4 I8, I66 or I7 readers for each keypad.
Electronic keys management	Management of proximity keys with more than 72 million billions combinations and magnetic cards with optional BAXI readers.
Additional supervised power supply units management	Complete management of the additional power supply units that can be remotely connected via ULTRABUS (battery status 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	Built-in multi-protocol communication module for digital transmissions using the Fast Format and ADEMCO ID-CONTACT protocols.
Voice communication	Voice and remote interrogation transmissions using the MDVOICE optional board; 30-minute time can be freely programmed and divided in several messages.
GSM communication	ETR/GSM Dual Band optional module with SMS remote interrogation function, more than 16.000 SMS messages can be sent.
Remote assistance	Via PSTN optional MDPSTN module at 33600bps, Via GSM optional ETR/GSM module at 9600bps.
Radio detectors 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 software 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

Compatible devices

Modules

MDVOICE	ETR GSM	MDPSTN	ETREIB	ELMOGWAY
				
Voice interface module	GSM module	Module for analogue telephone line	Konnex interface module	Konnex interface, SCS and Modbus module

Control devices

METIS series	NIRVA series	MIDAS	ANIMA series	TATTILO series
				
Control and management keypad	Control and management keypads	Control and management keypad	Capacitive control and management keypads	Touch screen control and management keypads

Inserters

I8 series	I66 series	ETRZENITH series	IZENITH series	PASSLIGHT
				
Inserter with connection on ULTRABUS (RS485)	Wired inserter connectable to the keypads	Key point with connection on ULTRABUS (RS485)	Sectorizable inserter with connection on ULTRABUS (RS485)	System status indicator with connection on ULTRABUS (RS485)











Concentrators and repeater

RIVER series	RIVERRF series	RPX485
		
Concentrators with connection on ULTRABUS (RS485)	Concentrators for wireless devices	ULTRABUS repeater



Sirens

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

Detectors

TRIAL series	GRIFOX series	STRIXO series	BLADE series	SCORPIO	CONDOR
					
Outdoor 2IR+MW detectors with multifocal/vertical/horizontal lens	Outdoor IR+MW detectors with multifocal lens	Outdoor IR+MW detectors for doors/windows/external walls protection	Indoor IR or MW+IR detector for doors/windows	Indoor IR detector	Indoor IR+MW detector
DT1000 series	DT2000 series	DT4000	TRES01 series	DTS3000 series	
					
Indoor MW+IR compact detectors (DT1000P PET-IMMUNITY version)	Indoor IR+MW detector	Indoor IR+MW wired detector with anti-mask function	Indoor 2IR+MW detectors	Indoor detectors for ceiling-mount	

Power supply units

C10RS	C11RS
	
Power supply units with ULTRABUS (RS485) connection, up to 3 A	Power supply units with ULTRABUS (RS485) connection, up to 6,5 A

Other accessories

ETVARCO	ICON100AVR
	
Module for access controls management	Controller on board for access control for 1 door (1 IN and 1 OUT reader)

The devices are available in these version:



Wireless



Wired



ULTRABUS (RS485 serial bus)



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