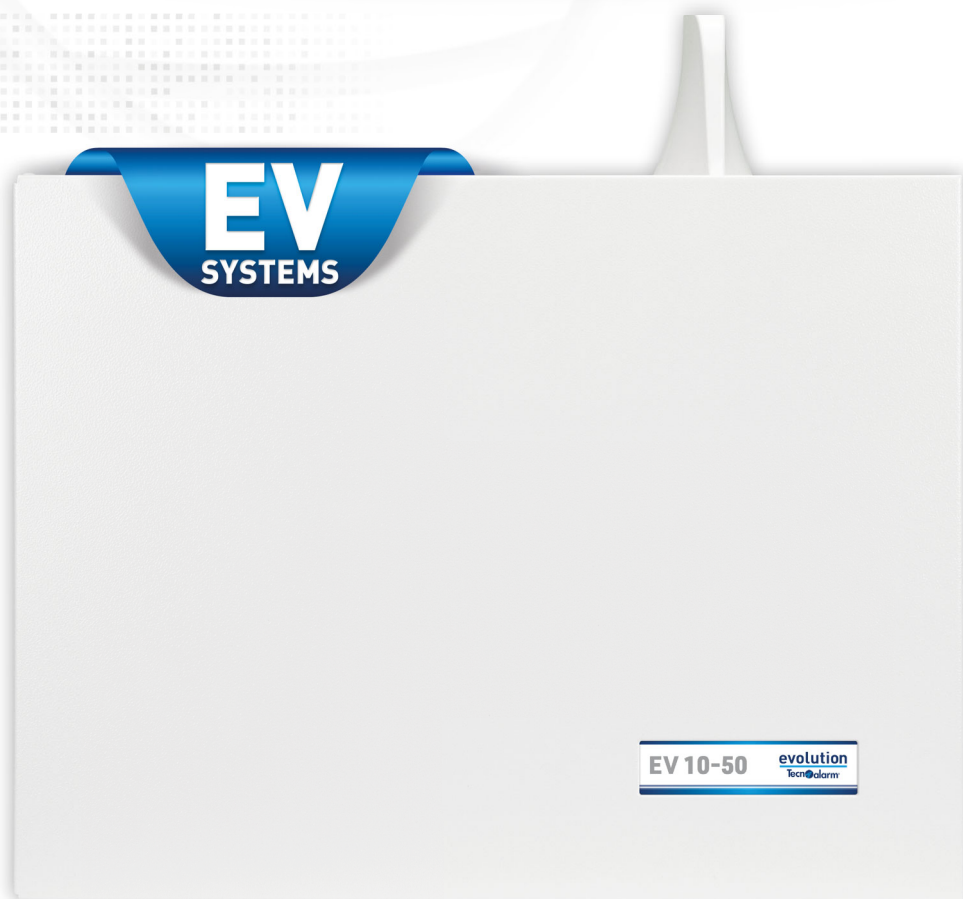


EV 10-50

Expandable hybrid control panel



Catalog extract

Tecnoalarm®
evolution

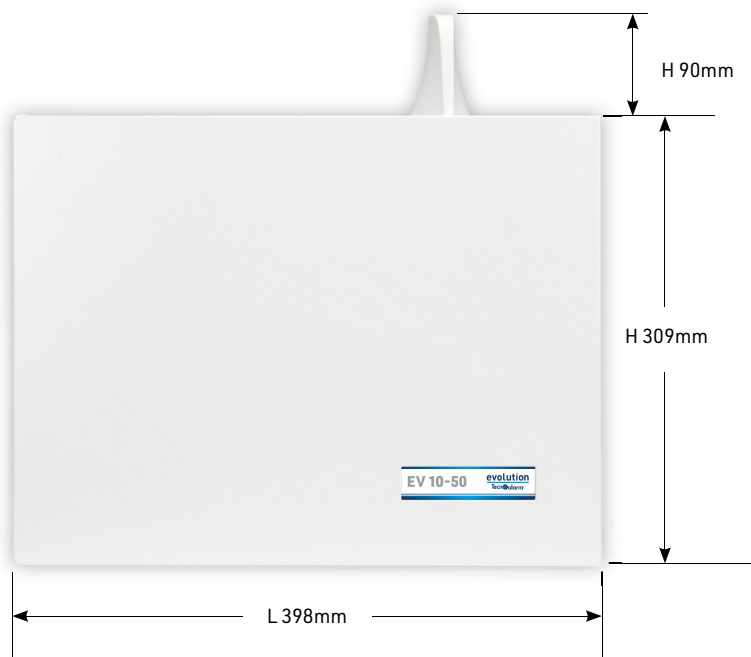




EV 10-50



Hybrid control panel Expandable from 10 to 50 hard-wired/wireless zones



PHYSICAL INPUTS PER DEVICE

	CPU	EV MOD BWL	EV DOMO	SPEED 8 STD	SPEED 4	SPEED 4-140C	SPEED 8	SPEED ALM8 PL	SPEED 4 PLUS	SPEED 8 PLUS	SPEED ALM8 PLUS	SPEED 4-8 P3A
WIRELESS EV@BWL	-	50	-	-	-	-	-	-	-	-	-	-
CONVENTIONAL*	4	-	2	8	4	4	8	8	4	-	-	4**
ZONE BUS	-	-	-	-	-	-	-	-	4	8	8	8
SENSOR BUS	6	-	-	-	-	-	-	-	4	8	8	8
HOME AUTOMATION	-	-	2	-	-	-	-	-	-	-	-	-

* The following contact types can be programmed: NC (normally closed), NO (normally open), BIL (end-of-line resistor), B24 (double end-of-line resistor). The following filters can be programmed: time, pulse count or vibration.

**The 4 conventional inputs are only available as an alternative to 4 Sensor Bus inputs (max. 8 inputs managed).

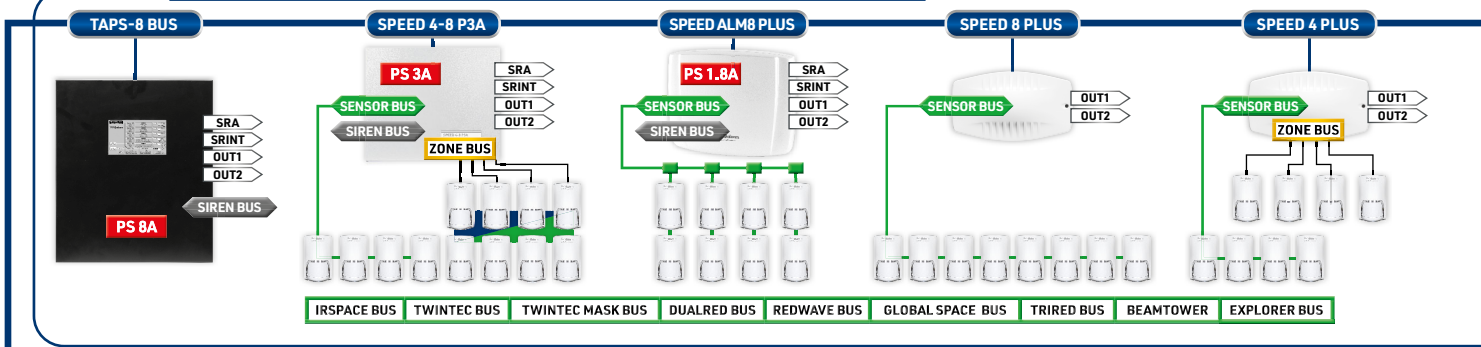
PHYSICAL OUTPUTS PER DEVICE

	CPU	EV DOMO	SPEED 8 STD	SPEED 4	SPEED 4-140C	SPEED 8	SPEED ALM8 PL	SPEED 4 PLUS	SPEED 8 PLUS	SPEED ALM8 PLUS	SPEED 4-8 P3A
RELAY	2	-	-	-	-	-	2	-	-	2	2
OPEN COLLECTOR	4	-	-	1	14	2	2	1	2	2	2
HOME AUTOMATION	-	2	-	-	-	-	-	-	-	-	-

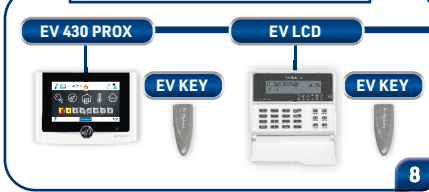
Technical Evaluation index	Serial ports				Communication devices			Telematic services and apps				
	SERIAL BUS	SENSOR BUS	SIREN BUS	WL BUS	4G GSM	IP	4G GSM-EXT	TCS	DDNS TECNOALARM	evolution		
EV 10-50	■	■	■	■	-	SP3...5 DP1...DP4	SP3...5 SP2	■	■	■	-	-
	A+				A			A				

A: excellent - B: good - C: satisfactory - SP: single path - DP: dual path - The SP and DP values indicate the performance level achieved by either a single communication device or a combination of two, according to the EN 50131 and EN 50136 standards.

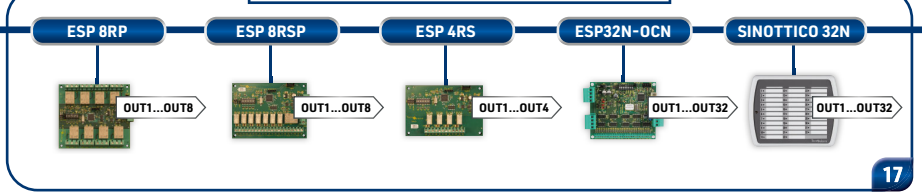
POWER SUPPLIES - INPUT EXPANSIONS - HOME AUTOMATION



CONSOLES



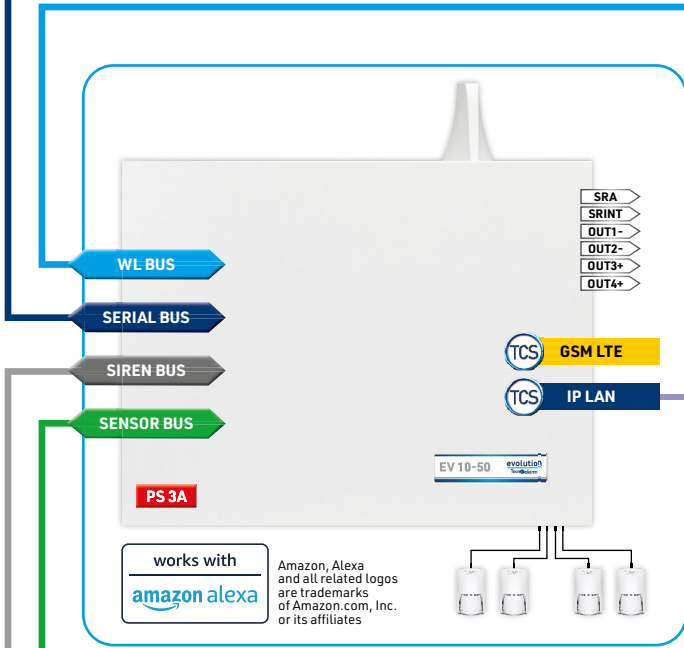
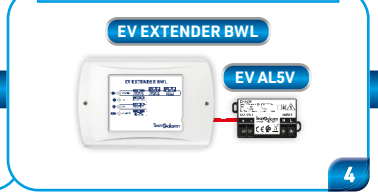
OUTPUT EXPANSIONS



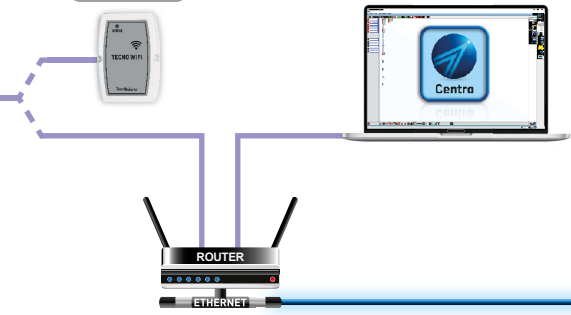
RECEIVER-TRANSMITTER



WIRELESS EXTENDERS



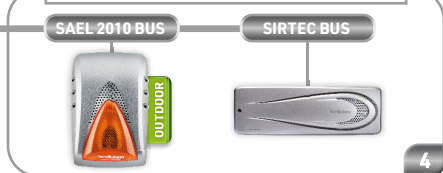
TECNO WIFI



BUS DETECTORS

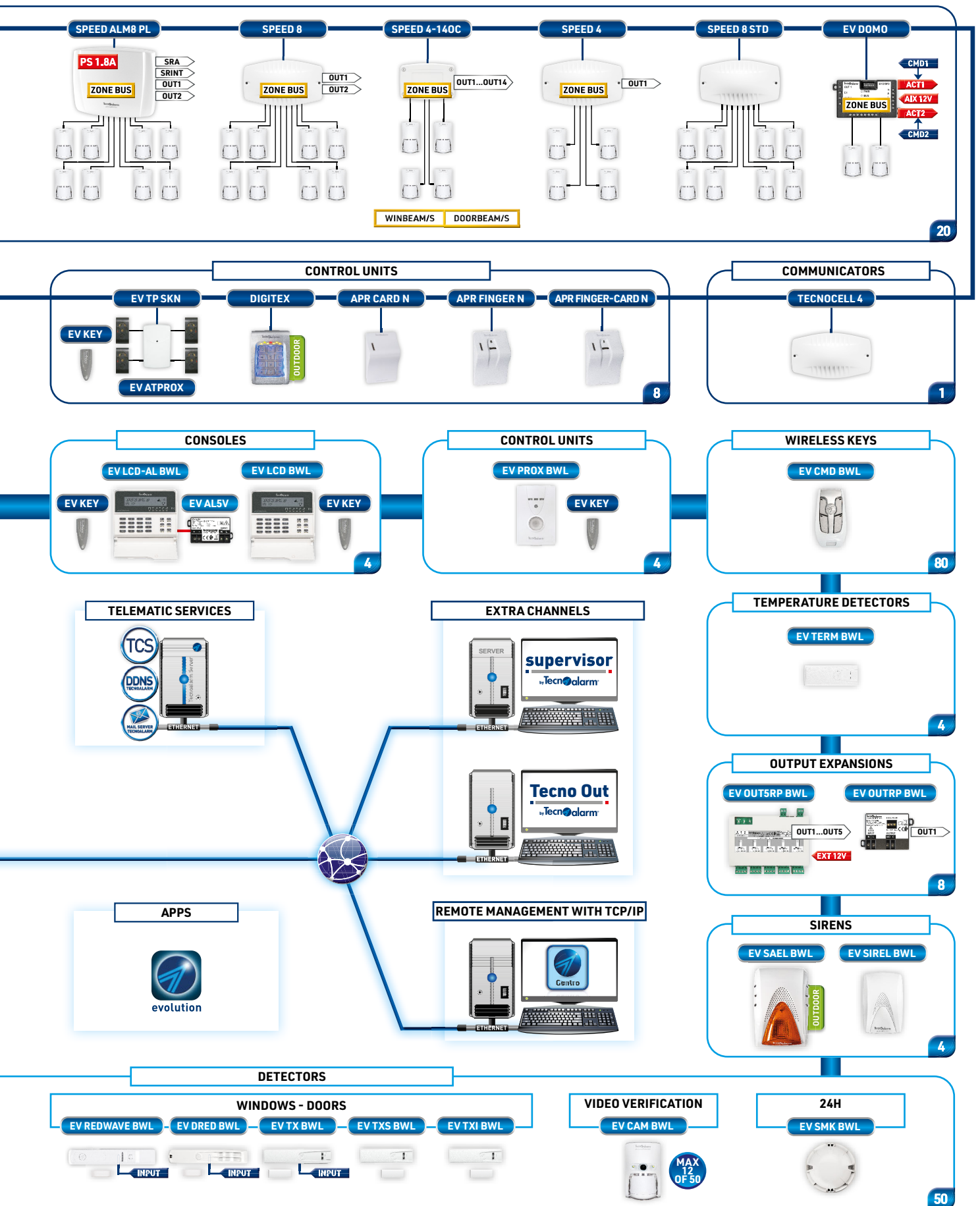


BUS SIRENS



VOLUMETRIC





EV 10-50

- 50 logic zones
- Max. 50 hard-wired zones: conventional, Zone Bus, Sensor Bus
- Max. 50 wireless zones
- Max. 20 automation zones
- 4 inputs for connecting conventional detectors
- 6 Sensor Bus inputs for connecting RSC® detectors
- 1 tamper input
- 6 programmable alarm outputs
- 8 logic sirens
- 1 power supply output for charging battery of the self-powered siren
- 1 WL Bus port for connecting the EV MOD BWL module
- 1 Serial Bus port for connecting conventional peripherals
- 1 Sensor Bus port for connecting RSC® detectors
- 1 Siren Bus port for connecting RSC® sirens
- On-board IP WAN and 4G LTE communication devices
- Optional GSM-EXT communication device TECNOCELL 4
- Optional Wi-Fi module TECNO WIFI
- 12 channels for event notification
- 2 telephone numbers/IP addresses per channel
- Independent passphrase for each channel
- 50 protocols for transmission in the formats: Speech, SMS, Ring, Data, E-mail and TCS
- Security: AES 128- and 256-bits data encryption
- 4 Server TCP/IP channels with access controlled by passphrase and white list
- 12 Client TCP/IP channels with customized encryption key
- 2 extra channels
- Test call with TCP/IP
- GSM network cell scanner function
- Jammer detection function
- Management of the telematic services TCS, DDNS Tecnoalarm, SNTP and Mail Server Tecnoalarm
- Voice synthesis
- Customizable text-to-speech vocabulary
- 8 programs with individual time settings
- Management of multiuser systems with common zones
- Programmable coincidence function
- Management of 10 home automation modules
- Management of biometric finger print and RFID card readers
- 122 access codes
- 100 transponders/RFID cards
- 80 wireless keys
- 36 remote controls
- 8 timers
- 8 access periods
- 8 cyclic timers
- Recallable information message
- 3 customizable memos with programmable deactivation priority
- Customizable quadrennial or perpetual calendar
- Automatic Daylight Saving/Local Sidereal Time change
- 4-zones thermostat with weekly schedule
- Digital control of radio range and interferences
- Event buffer with 64,512 events capacity
- Bay for 12V/12Ah battery
- Battery test with automatic disconnection in case of failure
- On-board 3A switching power supply

EV 10-50

evolution

Technologies and services							
Standard equipment							
Expansions							
Control modes							
Automation							
Advanced features							

EV 10-50 - Technical and functional specifications

Zones	Total logic zones	50	Telematic services	Tecnoalarm Connect Service	✓
	CPU hard-wired zones	6 Sensor Bus 4 conventional		DDNS Tecnoalarm	✓
	Total hard-wired zones	50		Mail Server Tecnoalarm	✓
	Total wireless zones	50		SNTP	✓
	Total automation zones	20	Wireless devices managed	Receiver-transmitter modules	1
Outputs	CPU outputs	6		Extenders	4
	Logic sirens	8		Total detectors	50
System features	RS485 serial buses	WL Bus Siren Bus Serial Bus Sensor Bus		Synchronized detectors	12
	Voice synthesis	✓		Consoles	4
	Vocabulary	TTS		Control units	4
	Image memory	Micro SD (optional)		Sirens	4
	Event buffer capacity	64,512 events		Output expansions	8
Programs and access management	Programs	8	Temperature detectors	4	
	Codes	122	Serial expansions	Input expansions	20 (max. 10 home automation)
	Finger prints	96		Consoles	8
	Transponders/RFID	100		Control units	8
	Wireless keys	80		Output expansions	17
		4G communicators		1	
Automation	Timers	8	Bus sirens	4	
	Access periods	8	Advanced programming	Actions	1,024
	Thermostat	4-zone		Timers	512
	Calendar	Quadrennial or perpetual		Counters	128
	Memos	3		Telephone index	48 numbers
	Remote controls	36	Reserved output expansions	4	
	Test call with TCP/IP	1	Apps	iPhone - Android - Huawei	Evolution
	Cyclic timers	8		Extra channels	Supervisor
Alarm transmission equipment	Communication formats	IP WAN 4G LTE	Electrical specifications		Tecno Out
	GSM-EXT format (optional)	TECNOCELL 4		Operating voltage	230V AC +/-10% 50Hz
	WI-FI module (optional)	TECNO WIFI		Consumption CPU board	150mA @ 13.8V DC
	ATE categories	SP3...SP5 DP1...DP4	Physical specifications	Power supply	3A @ 14.4V DC
	Protocols	50		Battery	1x 12V/12Ah
	Encryption	AES 128/256 bits		Environmental class	II
	Passphrase	Programmable		Casing	Metal
	Channels	12		Dimensions (L x H x D)	398 x 309 x 108mm
	Server TCP/IP channels	4		Antenna height	90mm
	Client TCP/IP channels	12	Weight (w/o battery)	4.5kg	
	Extra channels	2	Conformity	Standards	EN 50131-1 EN 50131-3 EN 50131-5-3 EN 50131-6 EN 50136-2
	Transmittable events	174			
	Telephone numbers/IP address	2 per channel (max. 24 digits)			
	Call event queue	64			

Expansions

EV MOD BWL							
	<p>Highly sensitive multi-channel UHF receiver-transmitter - 868MHz frequency band - Digital modulation - EV@BWL protocol - AES 128-bit encryption - Integrated RSC® technology: remote programming and management - Connection via WL Bus - Mounting inside the control panel casing or surface mounting at max. 50m distance - Anti-tamper protection: anti-opening/anti-detachment, serial bus sabotage, antijamming - Environmental class II (indoor general) - ABS casing - White</p>						
Item no. F102EVMOBWL							

EV MOD BWL - Technical and functional specifications

General features	Type	EV MOD BWL	Electrical specifications	Operating voltage	10V...14.5V DC
	Connection	WL Bus RS485		Max. consumption	170mA @ 13.8V DC
Wireless features	Communication protocol	EV@BWL	Physical specifications	Environmental class	II
	Encryption	AES 128 bits		Protection class	IP3x-IPK04
	Transmitter-receiver	Multi-channel UHF		Casing	ABS
	Frequency band	868MHz		Dimensions (L x H x D)	73 x 137 x 39mm
	Modulation	FSK		Weight	119g
Anti-tamper protection	Anti-opening and anti-detachment	Micro-switch	Conformity	Standards	EN 50131-1 EN 50131-3 EN 50131-5-3
	Serial bus sabotage	✓		Security grade	2
	Anti-jamming	✓		Notified body	IMQ
	Supervision	✓			

TECNO WIFI		
	<p>Ethernet-Wi-Fi interface for connecting the control panel to a domestic Wi-Fi network - Ethernet RJ45 connector - Standard 802.11b/g/n Wi-Fi transmission - Management of 1 device</p>	
Item no. F130TECNOWIFI		

TECNO WIFI - Technical and functional specifications

General features	Type	TECNO WIFI	Electrical specifications	Rated voltage	12V DC
	Connection	RJ45		Operating voltage	9V...28V DC
Network features	Ethernet connection	10/100Mbps	Physical specifications	Stand-by consumption	75mA @ 12V DC
	Wi-Fi connection	802.11b/g/n up to 150Mbps		Max. consumption	120mA @ 12V DC
	Frequency	2.4GHz		Environmental class	II
	Encryption	WEP - WPA - WPA2 - WPA3		Protection class	IP2x-IPK04
	Antenna	On-board		Casing	ABS
Power supply	RJ45 Ethernet cable	EV 10-50 and later	Dimensions (L x H x D)	95 x 67 x 26mm	
	9-28V DC external power supply	EV 4-24 - TP series	Weight	104g	

EV DOMO		2 ZONES	2 DOMOTIC ZONES	CONVENTIONAL ZONE	ZONE BUS	2 OUTPUTS 4A 250V AC	CLASS II GENERAL INDOOR
	Automation module with 2 inputs for connecting conventional, RDV® and Zone Bus detectors from Tecnoalarm - Automation section composed of 2 control inputs and 2 relay outputs (4A @ 250V AC) - Programmable operating mode: automatic switching of lights, triggering of motorized roller shutters and venetian blinds, automatic opening of gates and doors, control of general electrical equipment - Auxiliary power supply input for backup of automation functions - RS485 connection - ABS casing - Dimensions (L x H x D) 105 x 55 x 26mm						
Item no. F127EVDOMO							

EV DOMO - Technical and functional specifications

General features	Type	EV DOMO	Input expansion features	Total logic zones	2
	Connection	Serial Bus RS485		Managed detector types	Conventional, RDV® and Zone Bus from Tecnoalarm
Automation features	Automation zones	2	Electrical specifications	Rated voltage	12V DC
	Operating mode	Lights Roller shutters Venetian blinds Gates and doors		Operating voltage	10.5V...15V DC
	Control inputs	2		Stand-by consumption	30mA @ 12V DC
	Programmable switch types	Manual - Smart NC - NO		Max. consumption	80mA @ 12V DC
	Interlocking of control inputs	Programmable	Physical specifications	Environmental class	II
	Relay outputs	2 programmable (max. 4A @ 250V AC)		Protection class	IP2x-IK04
	Auxiliary power supply input	Backup of automation functions		Casing	PC V0
			Dimensions (L x H x D)	105 x 55 x 26mm	
			Weight	109g	

EV 10-50 - Accessories

	ANTENNA EXTENSION 12m extension cord for connecting the antenna to the GSM module Item no. C126PROLANT12M		ANTENNA EXTENSION 4m extension cord for connecting the antenna to the GSM module Item no. C126PROLANTENNA
	MICRO SD 4GB 4 GB micro SD memory card - Storage of 200 sequences of 6 high-resolution photos for each Video Verification detector N.B. Tecnoalarm does not guarantee the correct functioning with other memory cards. Item no. F127EVCARD4GB		ANTENNA KIT Multi band GSM antenna with magnetic base and 3m extension cord for installing the antenna on metal surfaces Item no. C126ANTENNA3GBA



SOFTWARE PLUG-IN

ADVANCED PROGRAMMING	Advanced programming software plug-in N.B. Function subject to license. Indicate serial number of control panel in order.	
	Item no. F127EV50/AV	
TECNO OUT	Tecno Out software plug-in N.B. Function subject to Non-Disclosure Agreement. Indicate serial number of control panel in order.	
	Item no. F127EV50/TECNO	

MODELS

Model	Item no.							
EV 10-50	F101EV10504G-UK			✓	✓	Optional	3A	✓
EV 10-50 EN	F101EV10504GEUK	Security grade 2		✓	✓		3A	✓

COMMUNICATION DEVICES

Format	Device								
4G LTE	On-board	✓			✓	✓	TCP/IP	✓	
IP WAN	On-board	✓	✓	✓	✓		TCP/IP	✓	✓
GSM-EXT*	TECNOCELL 4							✓	

* Optional communication format

EV 10-50 - Presentation



EV 10-50 - Programming manual



EV 10-50 - Installation manual



TECNO WIFI - Installation and configuration manual



EV 430 PROX - Video tutorial for user



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