



IC60 Sintony® 60 Intrusion Control Panel

for homes and small businesses

- **Multifunctional intrusion control panel for highest requirements**
- **Stylish and modern design**
- **Wired or/and wireless connectable peripherals**
- **Individually expandable**
- **2 areas**
- **16 wired or wireless zones**
- **Up to 100 users**
- **Up to 16 remote controls with panic button**
- **8 programmable telephone numbers at integrated dialer**
- **8 programmable calendar functions**
- **4 - 8 programmable outputs***
- **Up to 7 external keypads or access card readers (125 kHz proximity)***
- **External GSM module for backup and SMS communication***
- **Various alarm verification methods**
- **PC based remote configuration and maintenance**
- **Programmable locally using a keypad, memory stick or from a PC**
- **Room temperature indication**

* Please refer to the Installer manual of the IC60 regarding detailed information about the max. configuration of the system and bus length.

Sintony® 60 compact



The same housing offers vertical or horizontal mounting options

This **multifunctional security and comfort control panel** not only provides specific intrusion functions that meet the highest requirements. It also offers additional security functionality such as access control using card readers or SMS alerts with transmission through GPRS.

The **modular and individual design** can be customized for specific customer requirements with a wide range of colors and mounting possibilities. The system will grow and adapt to increasing requirements, and is available wired or wireless.

The **integrated PSTN dialer**, with 8 different numbers, enables information to be sent to designated individuals: the system can distinguish between comfort functions (e.g. child return) and alarm events, ensuring that only the relevant alerts are sent to the pre-programmed numbers. For example, the Central Monitoring Station (CMS) or the police will receive notification only in case of an alarm, whilst a medical practitioner will only receive notification in case of a medical emergency.

The **versatile alarm verification methods** help prevent false alarms caused by incorrect operation or detection, thereby avoiding unnecessarily stressful situations and costly intervention measures. Several events can be filtered before the alarm is transmitted, with the additional option to either delay or confirm the alarm transmission. An audio module with listen-in /speak-out functionality facilitates further alarm verification and direct communication with people inside the building.

The **programming software** can be used for the configuration and maintenance of the Sintony 60 control panel. The system can be accessed locally or remotely via a standard telephone line. The software enables the system data to be optimally managed thanks to secure remote operation and configuration. It can also be used by Central Monitoring Stations (CMS) or service providers to follow up on events (255 event memories).

The **16 inputs and 8 outputs** can be individually programmed. This customization enables e.g. the monitoring and control of a large number of points in a home or small commercial premises, as well as the activation of system features and the reception of signals caused by events.

The **SiWay™ radio system** enables the integration to the control panel of all wireless components such as remote controls, glass break-, motion- and smoke detectors, input modules or door contacts. This encoded, unidirectional system saves installation time and efforts in locations where new cabling is restricted by limited access or space.

The **secured wireless transmission** ensures a steady connection between the detectors and the control panel. Advanced frequency monitoring is combined with dynamic detector battery checks (these check results are sent with each transmission), providing advanced warning of low battery conditions, and ensuring enough time is available to source a new battery.

Control units

All Sintony 60 intrusion control panels are equipped with stylish, user-friendly keypads with illuminated keys and LCD display, as well as plain text displays and operating support for internal and external activation. The keypads also enable the deactivation of security wards, quick system checks and the activation of a silent alarm in the case of a burglary.



IC60 with integrated LCD keypad with large display and temperature indication (330 x 170 x 40 mm)

The Sintony 60 compact is equipped with an extra large 2-line display - each line consisting of 16 characters - and an integrated keypad. The glossy finish, the crystal clear buttons and the different colors will cater for every style and taste. The display and keys are backlit, and the intensity of the illumination, as well as the volume of the signal tones, can be individually adjusted. The 5 LED's display the most important system statuses such as "ready", "trouble", "stay at home", "bypass" and "armed". The keypad layout mirrors the familiar telephone dials for ultimate user-friendliness, and clearly shows separate emergency call buttons. A room temperature indication is also integrated.



IKP6-03 external LCD keypad with large display and temperature indication (145 x 126 x 22 mm)

The keypad benefits from a stylish and slim-line design. The glossy finish, the crystal clear buttons and the different colors will cater for every style and taste. The IKP6-03 is equipped with an extra large 2-line display, each line consisting of 16 characters. The display and keys are backlit, and the intensity of the illumination, as well as the volume of the signal tones, can be individually adjusted. The 5 LED's display the most important system statuses such as "ready", "trouble", "stay at home", "bypass" and "armed". The keypad layout mirrors the familiar telephone dials for ultimate user-friendliness, and clearly shows separate emergency call buttons. A room temperature indication is also integrated. Available in black or white.



IAR6-30 contact-less ID access card reader IP 54 (125 kHz) (121 x 45 x 21 mm)

With its flat and compact design this card reader fits in seamlessly with the stylish design line of the Sintony 60 range. It can be connected directly to the central Bus and can operate as a keypad (without programming). All existing standard tags/cards with a 125 KHz operating frequency can be used and registered to the Sintony 60, on site or remotely (max. 100 users in total).



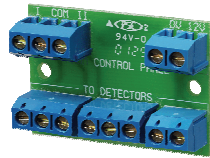
IRCW6 five-channel remote controls for Sintony 60, waterproof

The remote controls have an elegant and stylish design, and simplify the use of the security system; They can activate or deactivate the Sintony 60 system without a code. Secured with an individual 24 Bit encrypted code transmission and a waterproof housing, they are small enough to be used on a key ring. A wide range of colours is also available for easy identification and to meet individual tastes. Additional integrated functions enable the remote operation of other devices such as lights, garage doors, etc. In addition, police or medical assistance can be requested through the integrated panic button.



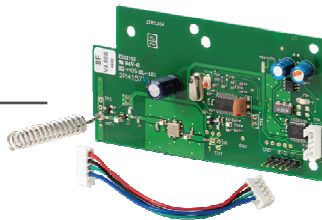
Central-Bus

Various plug-in modules and peripherals are available for a professional installation, such as addressable output modules, voice modules, card readers or external GSM modules. The panel feeds, controls and monitors the modules via a central Bus, which can be installed easily in any building.



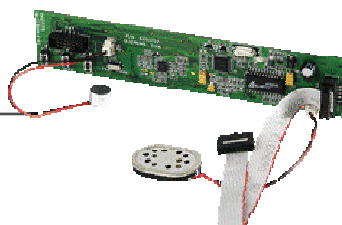
IZE6-04 four wired zone expander module

With this unit, 4 additional wired zones can be connected to the Sintony 60 control panel. The module can be integrated within the control panel (modular version only) or mounted externally to save cabling via a connection to the terminal block of the inputs. Up to 4 modules can be used with one Sintony 60 panel (e.g. max 16 wired zones).



IRFW6 receiver module

When built into the control panel, the receiver module is able to operate 16 wireless devices from the Sintony 60 product range, and up to 16 remote controls. The signal is transmitted within a secured frequency range (868 MHz in Europe, 915 MHz in the US) with encrypted information. If the frequency is blocked or jammed, an alarm signal will be generated. To overcome transmission problems an additional receiver module can be mounted externally and connected to the central Bus.



IAV6-90 audio verification IC60 compact (+90 sec. message)

This module works as a two-way voice verification module and enables the control panel to be used as a communication point. This enables alarms to be verified by listening-in, a functionality normally required by Central Monitoring Stations (CMS) to reduce the cost of false alarms. The "listen-in" function can be activated from the outside with a security pin code or automatically in case of an alarm. In case of a medical emergency the operator can directly talk to the person in need.

A 90 second alarm message can also be recorded with the integrated microphone, then stored and individually programmed for broadcast via the loudspeaker in case of an alarm.

This unit works with the Sintony 60 compact version only.



IRO6-04 relay output module 4 12V/1A

With this unit 4 additional output relays can be connected to the Sintony 60 control panel. The module can be mounted externally to save cabling, via a connection to the central bus (built-in modular version only). Only 2 modules can be used with each Sintony 60 panel (e.g. max. 8 programmable outputs).



IGS6 external GSM module, quad band with TCP/IP

By adding a GSM module to the control panel, the alarm panel turns into an independent alarm unit. The GSM module can also work as a backup transmission unit if the telephone line is down. Furthermore, it enables SMS messages to be sent to pre-programmed mobile phone numbers, giving information about the current situation at home or in the office. The module can also transmit CID alarm protocols over telephone networks or TCP/IP to a Central Monitoring Station (CMS). Voice transmission is not supported.

Accessories

The Sintony 60 is a multifunctional intrusion control system with a wide range of options and accessories to facilitate the mounting, programming and individual design of the system. The latest news can be found online at: www.siemens.com/homesecurity. Please check for further information – especially the latest products, modules, documentation and programming software, and colors and styles.



IC60M-8 Sintony 60 in small modular housing 8-16 zones (290 x 250 x 90 mm)

The Sintony 60 control panel can also be delivered in a more traditional modular design with a small box containing the power supply and the battery. This product is recommended only for wired installations where space for a bigger backup battery is needed.



IVK-6 vertical mounting kit

This kit contains an additional white front cover and an additional vertical keypad with button, to be exchanged with the existing horizontal button keypad version. These two parts are necessary to convert the Sintony 60 compact into a vertical panel. No additional material is needed. Different colours are available for vertical and horizontal mounting options.



IMM6-1 memory stick

The memory stick enables a quick on-site programming, with easy up- or download of special customer default settings. The memory stick can store one default setting for one Sintony 60 panel.



IAS6-1 CD with installer software and complete installations and user documentation

The software enables the programming and maintenance of a Sintony 60 by PC (locally and/or remotely). The CD contains the documentation as well as the programming and administration software for the Sintony 60 system. A PC and the programming cable IAQ6-1 enables software-authorized users to get access to the panel remotely or locally.



IAQ6-1 PC interface cable USB

The connection cable enables direct connection between a PC and the Sintony 60 control panel for direct programming and printing of the memory log. The product consists of a standard mini USB cable and a special Sintony 60 communication interface connector.

Overview system technology

	Sintony 60 Compact	Sintony 60 Modular
Inputs (programmable) wireless and/or wired	in total max.16	in total max.16
Inputs hardwired (programmable)	8 (16 zones by doubling)	8 (16 zones by doubling)
Inputs wireless (programmable)	16	16
Outputs (programmable)		
- Open collector 12 V/1 A	2	3
- Relay 24 V/2 A	1	1
- Internal Piezo output (No-1)	1	none
- Relay 24 V/1 A (IR06-04 x 2) optional	2 x 4	2 x 4
Bus connections- max. length*		
Up to 25 m, 22 AWG, wire diameter 0.6 mm	7 keypads IKP6-03 or readers IAR6-30	8 keypads IKP6-03 or readers IAR6-30
Up to 100 m, 20 AWG, wire diameter 0.8 mm	4 keypads IKP6-03 or readers IAR6-30	4 keypads IKP6-03 or readers IAR6-30
Power supplies		
Integrated power supply	switching power supply 100 – 240 V AC 50/60 Hz	power transformer 240 V AC 50 Hz
External power supplies	optional external adapter	optional
Output load of the monitored power supplies (nominal voltage 12 V)	0.8 A	1 A
Fused 12 V outputs	3 (automatic)	3 (automatic)
Back up battery for 24 h	1.8 Ah	1.3 Ah – 7 Ah
Battery and network monitoring	yes	yes
Battery cut off to protect against battery damage	yes	yes
Functions		
Independent alarm wards (partitions)	2	2
Physical input types (freely selectable for each input)	8 + tamper	8 + tamper
Wireless input types (freely selectable for each input)	16	16
Event memory with time stamp and additional information	255	255
PINs for users/installer	100/1	100/1
Weekly calendar	8	8
Local PC connection (USB)	with cable IAQ6-1	with cable IAQ6-1
Remote maintenance and configuration	yes	yes
Plain text programming using control unit or PC	yes	yes
Sabotage monitoring	yes	yes
Installation of additional modules possible	yes with external housing	yes
Keypads		
LCD keypad (built in)	yes	no
LCD keypads (external)	IKP6-03 max. 7	IKP6-03 max. 8
Activation without code	yes	yes
Plain text user support	yes	yes
Separate alarm/event buttons (fire/police/medical)	yes	yes
System control unit	yes	yes
Room temperature indication	yes	yes
Communication		
Analog PSTN dialing device	built in	built in
Digital ISDN dialing device	external filter necessary	external filter necessary
Voice alarm via telephone	IAV6-90 optional	no
System control via telephone	yes	yes
Multiple alarm protocol transfer	SIA, CID, Voice	SIA, CID, Voice
Backup telephone line GSM	IGS6-10 optional	IGS6-10 optional
Optional expansion modules		
4 zones Input module (max. 4/control panel)	IZE6-04	IZE6-04
4 relay Output module (max. 2/control panel)	IR06-04	IR06-04
Audio and verification functions		
Verification zone	1	
Call-back	yes	yes
2-way audio for alarm verification and intervention	IAV6-90 optional	no
Remote help (audio support)	yes	no
Wireless SiWay™		
SiWay™ wireless detectors (complete product range)	yes	yes with optional IRFW6
SiWay™ wireless input module	IMKW6	IMKW6
SiWay™ wireless remote controls max. 16	IRCW6	IRCW6
Additional external receiver (max. 2/control panel)	yes	yes
Dynamic battery checking	yes	yes
Indication of battery low in advance	yes all devices	yes all devices
Monitoring of frequency blocking	yes	yes
Detector monitoring adjustable supervision window	0 – 99 min	0 – 99 min
Network monitoring	yes	yes
Unidirectional wireless system	yes	yes
Monitoring of signal strength of wireless devices (RSSI)	yes (version 9.07 and higher)	yes (version 9.07 and higher)
Wireless module – range/Frequency band	up to 300 m at open space/868 MHz	up to 300 m at open space/868 MHz
Identification	Unique ID serial number-24 bit	Unique ID serial number-24 bit
EMI rejection up to 2 GHz	> 10 V/m	> 10 V/m
Environmental conditions		
- Operation temperature	-10 to +50 °C	
- Storage temperature	-20 to +60 °C	
- Humidity (EN 60721)	< 85 % r.h., non condensing	
- Housing protection EN 60529, EN 50102	IP41/IK02	
Complies with:	EN 61000-6-3, EN 55022, EN 50130-4, EN 50371, EN 300 220-2, EN 60950-1, EN 50131-5-3 Grade 2	

* Please refer to the Installer manual of the IC60 regarding detailed information about the max. configuration of the system and bus length.

Technical specifications

Panel	IC60 Compact	IC60 Modular	IGS6-10 ext. GSM module, quad band
Power supply	100-240 V AC, 50/60 Hz	230 V AC +10 %/-15 %, 50 Hz	10.5 – 14.5 V DC through central Bus
Main fuse	T250 mA	T250 mA	n.a.
Power consumption	max. 120 mA	max. 160 mA	Max. 200 mA
Power supply output	12 V DC/0.8 A	12 V DC/1 A	260 mA for battery charging
Battery type (optional)	Ni-Mh, 12 V DC/max. 1800 mAh	sealed lead acid, 12 V DC/max. 7 Ah	sealed lead acid, 12 V DC/1.3 Ah
Inputs	8+1	8+1	none
Outputs	1 x relay 24 V DC/2 A 2 x open collector 12 V DC/0.1 A	1 x relay 24 V DC/2 A 3 x open collector 12 V DC/0.1 A	1 x open collector 12 V DC/0.1 A
Display	LCD 2 x 16 characters	none	none
Frequency	868 MHz/915 MHz	868 MHz/915 MHz	900/1800 MHz or 850/1900 MHz
Operating temperature	0 to 50 °C	0 to 50 °C	-10 to +55 °C
Housing material	ABS-V0	ABS-V0	ABS-V0

Control units/ cards	IKP6-03 LCD Keypad	IAR6-30 ID Card reader	IRCW6 Remote control	IZE6-04 Zone expander
Power supply	9 – 16 V DC (via central Bus)	11 – 16 V DC (via central Bus)	built-in battery	connected to zone
Power consumption	min. 40 mA typ. 70 mA max. 110 mA	typ. 40 mA max. 50 mA	standby 6 µA max. 20 mA	resistor only/no power
Display	LCD 2 x 16 characters	2 LED's	1 LED	none
Operating temperature (< 85 % relative humidity)	-10 to +50 °C	-10 to +50 °C	-10 to +50 °C	-10 to +50 °C
Bus connections	2x central Bus (up to 8)	1x central Bus (up to 8)	none	none
Housing protection class	environmental class II	IP54	IP65 waterproof	no housing
Housing material	ABS-V0	ABS & epoxy	ABS-V0	n.a.

Central bus cards	IRFW6 Receiver module	IRO6-04 Relay output module	IAV6-90 audio verification IC60 compact
Power supply	7 – 15 V DC (via central Bus)	11 – 16 V DC (via central Bus)	7 – 15 V DC (via control panel data connection)
Power consumption	Typ. 22 mA	standby 15 mA +20 mA/ active Relay max. 100 mA	Standby 20 mA max. 120 mA
Inputs	none	none	microphone
Outputs	none	4 x relay 12 V DC/1 A 4 x open collector 12 V DC/0.1 A	loudspeaker
Frequency band	868 MHz/915 MHz	n.a.	n.a.
Operating temperature (93 % relative humidity)	-10 to +50 °C	-10 to +50 °C	-10 to +50 °C
Bus connections	1x central bus connector	1x central bus connector	1x compact panel data connection
Housing protection class	no housing	no housing	no housing

Please refer to the installation manual of the IC60 for further technical details.

Order information

		KIT PACKING WITH SINTONY 60
A5Q00013973	IPIC60-101	Kit IC60 modular housing, wired, ext. LCD keypad, 3PIR IR80, no battery
A5Q00013976	IPIC60-111	Kit IC60 compact panel, 3PIR IR80 wired, 1remote control, incl. battery
A5Q00013979	IPIC60-121	Kit IC60 compact panel, wireless, 3PIR IR60, 1remote control, incl. battery
A5Q00013981	IPIC60-123	Kit IC60 compact panel, wireless, 2PIR IR60, 1MK, 1 remote control, incl. battery
A5Q00013977	IPIC60-112	Kit IC60 compact panel, wireless, audio verification 2PIR IR60, 1MK, 1 remote control, incl. battery
A5Q00021565	IPIC60-101X	Kit IC60 modular housing, wired, ext. LCD keypad, no Battery -space for 3PIR / individual packing
A5Q00021566	IPIC60-111X	Kit IC60 compact panel, wireless, 1 remote control, incl. battery – space for 3 PIR/ individual packing
		PANEL SINTONY 60
A5Q00013934	IC60-8	Sintony 60 compact panel 8 zones incl. LCD, AC/DC converter, no wireless, no Battery
A5Q00013935	IC60W-10	Sintony 60 compact panel 16 zones incl. LCD, with receiver 868 MHz, AC/DC converter, no battery.
A5Q00013933	IC60M-8	Sintony 60 modular housing 8-16 zones, incl. Trafo, no wireless, no battery (keypad required for operation!)
A5Q00013936	IC60WA-10	Sintony 60 compact panel 8-16 zones incl. LCD, with receiver 868 MHz, AC/DC converter, no battery.
		PANEL ACCESSORIES
A5Q00020291	IZE6-04	4 wired zone expander module
A5Q00013944	IRO6-04	4 Relay Output module 12 V/1 A
A5Q00013943	IGS6-10	External GSM module, quad band
A5Q00013942	IAV6-90	audio verification IC60 compact
A5Q00020290	IKP6-03	External LCD Keypad white with large display
S54543-F105-A100	IKP6-03B	External LCD Keypad black with large display
A5Q00013972	IAR6-30	Contact less ID Access card reader 125 kHz
A5Q00013945	IRCW6-10	IC60 Remote control 868 Mhz, waterproof, white
S54543-F106-A100	IRCW6-1010	Pack with 10 colored remote controls
A5Q00013940	IRFW6-10	Internal RF receiver module 868 for IC60M
A5Q00020293	IAB1201-8	Battery pack NiMh 12 V/1.8 Ah
		Other panel accessories
A5Q00020294	IVK-6	Vertical mounting Kit
A5Q00013954	IMM6-1	Memory stick
A5Q00013955	IAS6-1	CD with installer software
A5Q00013952	IAQ6-1	PC Interface cable
A5Q00013948	IUM6-1	User Manual
A5Q00013946	IIM6-1	Installation and Instruction Manual
S54559-B105-A100	IVK6-08	Vertical mounting set, 8 colored Lexan
S54559-B106-A100	IHK6-08	Horizontal mounting set, 8 colored Lexan
S54559-B104-A200	IVB-6M	Milky buttons x5 for IC60 horizontal compact panel
S54559-B103-A200	IHB-6M	Milky buttons x5 for IC60 vertical compact panel
S54559-B104-A100	IVB-6B	Black buttons x5 for IC60 horizontal compact panel
S54559-B103-A100	IHB-6B	Black buttons x5 for IC60 vertical compact panel
S54559-B104-A300	IVB-6W	White buttons x5 for IC60 horizontal compact panel
S54559-B103-A300	IHB-6W	White buttons x5 for IC60 vertical compact panel