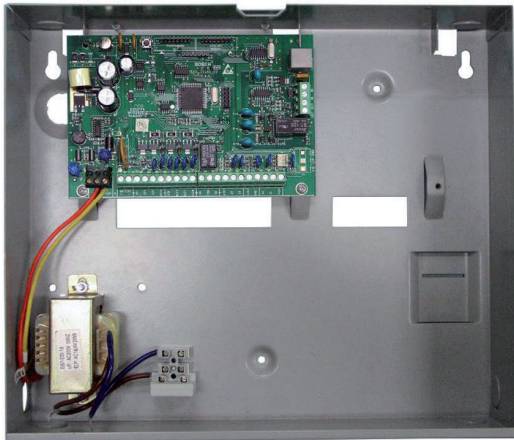




## ICP-CC488 Series Control Panels



The ICP-CC488 Control Panel provides eight programmable hard-wired or wireless burglary zones. Remote programming provides added convenience and adaptability.

### Functions

#### User codes

Users can program up to eight user codes and eight radio user codes. Only the Master Code holder can add or change other system user codes.

#### Two areas

The control panel is partitioned into two areas. Operate both areas from one master codepad or from multiple separate area addressable codepads.

#### Remote programming

Users can program the zones remotely with CC816 Alarm Link (A-Link) software on a PC with MS-DOS and a modem. Users can run diagnostics, arm systems, and bypass zones with an off-site computer. This reduces service visits to a site and provides quick customer service, saving time and money. Remote programming is useful for country locations where a control panel might be located hundreds of kilometers (miles) from an office.

#### Three arming modes

Users can arm the system using one of three modes:

- ▶ **Eight programmable user codes and eight radio remote user codes**
- ▶ **Two areas**
- ▶ **DTMF telephone remote arming**
- ▶ **Remote programming**
- ▶ **Three arming modes**
- ▶ **Day alarm, duress alarm, and codepad tamper alarm**
- ▶ **Built-in telephone line fault monitor**
- ▶ **Zone lockout**
- ▶ **Dynamic battery testing**
- ▶ **Event memory recall**

**AWAY Mode:** Arms the entire system.

**STAY Mode 1:** Arms all zones except those programmed by the installer to be automatically isolated.

**STAY Mode 2:** Arms all zones except those programmed by the Master Code holder to be automatically isolated.

#### Remote arming

This feature allows the system to be armed from any remote location by telephone. For obvious security reasons, the system cannot be disarmed using this method. A touch-tone telephone is required to use this feature. For this feature to operate, it must be programmed at installation.

#### Day alarm

Day alarm monitors a group of zones when the system is disarmed. For example, the front door of a shop has a pressure mat or electronic beam that customers activate as they enter or exit. The codepad beeps each time the mat or beam activates.

#### Duress alarm

A codepad duress alarm can work as a silent hold-up alarm and is useful when the system reports to a monitoring station or pocket pager.

#### Codepad tamper alarm

Codepad tamper limits the number of times that someone can try to enter the wrong user code. When someone exceeds the limit, the system starts an alarm and sends an Access Denied Report to a security monitoring station.

**Built-in telephone line fail monitor**

The system registers a telephone line fault when the system detects that the telephone line has been disconnected from the control panel. The system can be programmed to sound if the telephone line is cut when the panel is armed.

**Zone lockout**

The first zone to send an alarm condition is locked and a siren runs for a specified time. All other zones that send alarm conditions are reset when the sirens reset, but continue to report if another alarm condition occurs. This prevents an intruder from setting off the alarms in all zones, waiting for the sirens to stop, and then entering the site.

**Dynamic battery testing**

The system automatically performs a battery test every 4 hours and also every time you arm the system. The system registers a low battery fault when the system detects a low capacity back-up battery.

**Event memory recall**

Events are stored in non-volatile memory. Event memory recall plays the last 40 system events, including all alarms, system arming, and system disarming. If the control panel is partitioned, Event Memory Recall plays the last 10 system events.

**Programmable ring burst time**

Telephone ring times might be longer or shorter depending on the technology in a system. Different timing can cause control panels to answer calls that should be answered by an answering machine, fax, or a person. Users can program the control panel for the correct ring burst time; adjusting the ring time by 5 ms up to a total of 75 ms, or by 80 ms up to a total of 1200 ms.

**AC Fail and System Fault indicators**

If a fault occurs, the FAULT or MAINS indicator flashes and the codepad beeps once every minute.

**End-Of-Line (EOL) resistor value choice**

Users can choose different EOL resistor values when programming the control panel. The selected value applies to all zones at once. Users can add the control panel into an existing system without changing the EOL resistors.

**Telco arm/disarm sequence (call forwarding)**

This feature is only available if the call-forward option is available from the telecommunications provider. It allows programming of the Call Forward –Immediate On sequence or Call Forward –No Answer sequence that will automatically operate when the system is armed in the AWAY Mode.

**Call Forward Modes**

- **Immediate On:** Redirects all incoming calls to another number, including mobile phones, pagers, and answering services. The telephone called first does not ring.

- **No Answer:** Redirects all incoming calls to another number when the telephone that was called first is not answered within 20 seconds. Outgoing calls can still be made from the first telephone.

**Certifications and Approvals**

Region	Certification
Europe	CE EMC Directive 1999/5/EC: Radio and Telecommunications Equipment (R&TTE) TBR 21: 1998 Directive 2006/95/EC Low Voltage Directive (as amended) EN 60950-1:2006 2004/108/EC Electromagnetic Compatibility (as amended) EN 55022: 2006 ClassB; EN 55024: 1998+A1:2001+A2: 2003 2004/108/EC Electromagnetic Compatibility (as amended) EN 50130-4: 1995 +A1: 1998 +A2: 2003; EN 61000-3-2: 2006; EN 61000-3-3: 1995 +A1: 2001 +A2: 2005

The ICP-CC488 Series Control Panels have been tested to the following standards:

Region	Standards
Australia	A-tick
New Zealand	Tele-permit PTC-200
China	CCC

**Installation/Configuration Notes**

**Compatibility Information**

**RF Receivers**

- RF3212 RF Receiver (304 MHz)
- RF3212E RF Receiver (433.42 MHz)
- RF3212-CHI RF Receiver for China

**RF Transmitters (304 MHz)**

- RF280THS Wireless Smoke Detector
- RF835 Wireless TriTech (PIR/Microwave) Detector
- RF920 Wireless PIR Sensor
- RF1100 Glassbreak Transmitter
- RF3332 Two-Button Wireless Key Fob
- RF3334 Four-Button Wireless Key Fob
- RF3401 Point Transmitter
- RF3402 Recessed Door/Window Transmitter
- RF3502 Two-button Pendant Panic Transmitter

**RF Transmitters (433.32 MHz)**

RF280ETHS Wireless Smoke Detector  
 RF835E Wireless TriTech (PIR/Microwave) Detector  
 RF835E-C Wireless Dual Detector  
 RF940E Wireless PIR Detector  
 RF1100E Glassbreak Transmitter  
 RF3332E Two-Button Wireless Key Fob  
 RF3334E Four-Button Wireless Key Fob  
 RF3401E Point Transmitter  
 RF3402E Recessed Wireless Magnetic Contact  
 RF3405E Wireless (RF) Inertia Transmitter  
 RF3406E Inertia Transmitter (Eurogroove2)  
 RF3501LE One-button Pendant Panic Transmitter

### RF Transmitters for China

RF835-CHI Wireless TriTech (PIR/Microwave) Detector  
 RF920-CHI Wireless PIR Sensor  
 RF3332-CHI Two-Button Wireless Key Fob  
 RF3334-CHI Four-Button Wireless Key Fob  
 RF3401-CHI Point Transmitter

### Codepads

CP105A Night Arm Station  
 CP500AW LED Area Addressable  
 CP500ALW LCD Area Addressable  
 CP500PW LED Partitionable  
 CP508LW LCD Icon  
 CP508W LED  
 CP516LW LCD Icon  
 CP516W LED

### Modules

MO144 Universal Timer Module

## Technical Specifications

### Electrical

#### Current Draw

In alarm:	115 mA
In alarm with codepad:	105 mA
In standby:	65 mA

#### Power

Primary:	240 VAC, 18 VAC at 1.3 A from a TF008 Plug Pack
Secondary:	12 VDC, 6.5 Ah from a rechargeable sealed lead/acid battery

### Environmental

Relative Humidity:	10% to 95% non-condensing
Temperature (Operating):	0°C to +45°C (+32°F to +113°F)

### Mechanical

Dimensions (packed in carton):	306 mm x 262 mm x 84 mm (12.1 in. x 10.3 in. x 3.3 in.)
Weight:	2.5 kg (5.5 lb)

### Trademarks

Due to the nature of this material, this document refers to hardware and software products by their trade names. In most, if not all cases, these designations are claimed as trademarks or registered trademarks by their respective companies in one or more countries. It is not this publisher's intent to use any of these names generically. The reader is therefore cautioned to investigate all claimed trademarks rights before using any of these names other than to refer to the product described.

MS-DOS is a registered trademark of Microsoft Corporation in the United States and/or other countries.

## Ordering Information

<b>ICP-CC488-CHI Eight-zone Solution Series Control Panel with Enclosure and 230 V Transformer for China</b>	<b>ICP-CC488-CHI</b>
<b>ICP-CC488-APR Eight-zone Solution Series Control Panel with Enclosure and 230 V Transformer</b>	<b>ICP-CC488-APR</b>
<b>ICP-CC488P Eight-zone Solution Series Control Panel (v2)</b>	<b>ICP-CC488P</b>
<b>ICP-CC488P-ES Eight-zone Solution Series Control Panel with Spanish Literature</b>	<b>ICP-CC488P-ES</b>
<b>ICP-CC488P-K Kit</b> Kit containing an ICP-CC488P Control Panel with an ICP-CP508LW Codepad, an RF3212E RF Receiver (433.42 MHz), an RF940E Wireless PIR Detector, an RF3401E Point Transmitter, and an EDM Enclosure Kit	<b>ICP-CC488P-K</b>
<b>ICP-488P-ES-K Kit</b> Kit containing an ICP-CC488P-ES Control Panel with an ICP-CP508LW Codepad, an RF3212E RF Receiver (433.42 MHz), an RF940E Wireless PIR Detector, and an EDM Enclosure Kit	<b>ICP-488P-ES-K</b>
<b>Accessories</b>	
<b>CC891 Programming Key</b> Uploads and downloads program settings for Solution 16, Solution 862, Solution 880, and Ultima Control Panels.	<b>CC891</b>
<b>CP105A Night Arm Station</b> Provides one button for arming, and two buttons for panic alarm (off-white)	<b>CP105A</b>
<b>ICP-CP500ALW Area Addressable LCD Codepad</b> Eight-zone LCD codepad with easy to recognize system-condition icons and numerically-indicated zone status	<b>ICP-CP500ALW</b>
<b>ICP-CP500AW Area-Addressable LED Codepad</b> Eight-zone LED codepad with easy-to-read system condition text and numerically-indicated zone status	<b>ICP-CP500AW</b>

**Ordering Information**

<b>ICP-CP500PW Master-Partitioned LED Codepad</b> Master partitioned codepad with eight zone-status indicators	<b>ICP-CP500PW</b>
<b>ICP-CP508LW LCD Icon Codepad</b> Eight-zone LCD codepad with easy to recognize system-condition icons and numerically-indicated zone status	<b>ICP-CP508LW</b>
<b>ICP-CP508W LED Codepad</b> Eight-zone LED codepad with easy-to-read system condition text and numerically- indicated zone status	<b>ICP-CP508W</b>
<b>ICP-CP516LW LCD Icon Codepad</b> 16-zone LCD codepad with easy to recognize system-condition icons and numerically- indicated zone status	<b>ICP-CP516LW</b>
<b>ICP-CP516W LED Codepad</b> 16-zone LED codepad with easy-to-read system condition text and numerically- indicated zone status	<b>ICP-CP516W</b>
<b>MO144 Universal Timer Module</b> Provides programmable outputs that can be pulsed, toggled, or solid state for pre-set times.	<b>MO144</b>
<b>TF008 Plug-in Transformer</b> For use in Australia and New Zealand. 240 VAC primary voltage input. 18 VAC, 1.3 A secondary input. Includes thermal fuses and a three-wire flying lead with earth connection.	<b>TF008</b>
<b>CC808 Direct Link Cable</b> Cable to connect CC816 Alarm Link Software (A-Link) to Solution 862, Solution 880 Ultima, and Solution 16 Control Panels.	<b>CC808</b>

**Software Options**

<b>CC816 Alarm Link Software</b> Creates an interface between a compatible PC and compatible Solution 16, 880, and Ultima 880 Control Panels. Programs control panels remotely through a modem or directly from the PC using the Direct Link cable.	<b>CC816</b>
--	--------------

**Americas:**  
Bosch Security Systems, Inc.  
130 Perinton Parkway  
Fairport, New York, 14450, USA  
Phone: +1 800 289 0096  
Fax: +1 585 223 9180  
security.sales@us.bosch.com  
www.boschsecurity.us

**Europe, Middle East, Africa:**  
Bosch Security Systems B.V.  
P.O. Box 80002  
5600 JB Eindhoven, The Netherlands  
Phone: +31 40 2577 284  
Fax: +31 40 2577 330  
emea.securitysystems@bosch.com  
www.boschsecurity.com

**Asia-Pacific:**  
Robert Bosch (SEA) Pte Ltd, Security Systems  
11 Bishan Street 21  
Singapore 573943  
Phone: +65 6571 2600  
Fax: +65 6571 2698  
apr.securitysystems@bosch.com  
www.boschsecurity.com