

SECURITY SYSTEMS SOURCE BOOK

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BENTEL SECURITY

Bentel Security was founded in 1983 in Grottammare, Italy and moved to Corropoli in 1994. Global demand for its superior product line grew, and in 1998 Bentel joined forces with DSC to bring the world the finest security product line-up ever offered. In 2001, a veritable intrusion security powerhouse was formed, as Bentel became a brand within TYCO Fire & Security along with DSC, Sur-Gard and several other complementary brands. Bentel now offers the best value in a very complete line-up of security and fire prevention products.

ADVANCED TECHNOLOGY & SUPERIOR VALUE

Experience, technology, market responsiveness and extensive research have made Bentel the brand of choice among customers wishing to ensure the highest level of protection for families, business people and property.

Hundreds of thousands of Bentel security & fire systems are in use around the corner and around the world. These include installations in hospitals, banks, manufacturing facilities, shopping centres, public buildings, museums and in residential applications far and wide.

Products security control panels, fire nclud keypads and other user control ads. interfaces urity programming software, alarm co cation rec ceivers, mobile ph<mark>one</mark> phone dialers, alarm sirens, nterface smoke rs, motion detectors, glassbreak tors, analogue sensors, doto addressa devices, call points, power accessories and batteries. supplies,

DISTRIBUTOR PARTNERSHIPS

Bentel supplies its superior product to world-wide markets through a sophisticated & professional distribution network. We pride ourselves on fully supporting distributors in their efforts to provide superior service to their installer customers. Distributors know they can rely on Bentel product quality, technological superiority and a business model that favours our valued partners in the industry. When they post the Bentel sign on their door, they know they can immediately expect more satisfied customers to walk through it.

TECHNICAL SUPPORT

Installers quickly discover how simple it is to build their businesses with easy-to-sell, easy-to-install and easy-to-use Bentel products. The Bentel web site and qualified Bentel technical specialists offer incomparable on-the-job support for professional Bentel technicians. Professional installation and programming is fast and intuitive. Because Bentel products must meet strict high quality standards, call-backs are minimal, except when customers wish to buy more Bentel equipment.

In the technology age the world is changing quickly. Seasoned Bentel igineers discriminate carefully

INNOVATION

engineers discriminate carefully between practical advanced solutions and flashy unsustainable trends. In order to satisfy the changing needs of customers, Bentel has developed increasing connectivity for its products; for example, adding to communications capability through TCP-IP protocols and transmission through Ethernet and GSM/GPRS networks. More exciting innovations are on the way as Bentel benefits from increased research and development resources.

QUALITY ASSURANCE

To ensure quality control we perform parametric and functional tests on every board, and follow strict ISO 9001 testing procedures. Product controls and continuous monitoring are in place in all production phases. Our manufacturing facilities are among the most modern in the world and our association with sister companies in other countries means we benefit from an unparalleled depth of engineering & production expertise.

Over the course of 20 years Bentel has risen to the highest levels in the security business, establishing formidable industry performance benchmarks. We attribute success to highly qualified personnel, quality components, product innovation and continuous improvement. This results in advanced security products which are also reliable, flexible, and easy-to-use. It also results in very loyal Bentel partners and customers.

BLUSHIELD system: simplifying life

From Bentel technological research, a new security system against electromagnetic pollution for Bentel Control panels. Its special screen protects the system from false alarms and useless bothers.

Easy to install, easy to forget, easy life with BLUSHIELD.







Thanks to Blushield technology, once a security system has been installed, it can be easily forgotten.

This is the aim of Bentel Security: to make users' and installers 'life easier and safer.









REINVENTING CONTROL PANEL

The perfectly-blended alliance of winning features makes the KYO generation of control panels unique. This innovative concept of control panel design is the fruit of 20 years expertise . attentive research and installer perception.

Value-driven technology, respect for our heritage, reduced complexity, complete custom peripheral line-up, intersystem communication, excellence of our tailored solutions, and focus on diverse market segments make KYO a breakthrough product beyond all expectations.

The reduced complexity firmware and software structures allow trouble -free programming without the aid of the installer manual.

KYO has solutions to satisfy all the market segments. With KYO large applications are nothing more than small applications on a bigger scale.

The KYO project control panel eliminates application differences by providing perfectly tailored solutions.

The project now includes 6 models: KYO 4, KYO 8, KYO 16D, KYO 32, KYO 100 and KYO 300; obviously we see more growth ahead, so we are still on the move, keeping up with the complexities of future technologies and expectations. That is what makes KYO the shape of models to come.

Programmation of KYO control panels can be done in an extremely simple way through control keypads and easy to follow menu or by means of useful programmation software contained in Bentel Security Suite.

In both ways programmation is easy and immediate and there is no need of any technical instructions.

From 4 to 312 zones- from small domestic to large industrial applications- KYO speaks one language, the language of "All-theway-through" solution.

From now on installers can forget the pains of learning the complex procedures and intricate software programs of myriad of different systems. The KYO range embraces the entire panorama of security applications.

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Once you know one KYO control panel, you know them all. Even if each model has its own features, all of them share the same way of programmation and installation: 4 wires BPI bus is a great and simple mean to connect keypads, input and output expansion modules, proximity readers, electronic keys and additional power supplies.





control panels









KYO 300 - KYO 100

The KYO 300 and KYO 100 are the flagship models of the KYO range. Their flexibility and excellence of tailored solutions make them truly unbeatable. They are is the perfect solution for all applications. From the luxury home to the Bank - and everything in between. With the creation of the KYO 300 and KYO 100 Bentel wishes to consolidate its position as forerunner in the design and manufacture of security panels.

The KYO 300 has 8 zones, expandable to 312 zones by means of 32 expander modules (6 inputs per module), 32 LCD keypads (2 zones per keypad), 16 LED keypads (1 zone per keypad) and a wireless receiver (32 inputs).

The KYO 100 has 8 zones, expandable to 168 zones by means of 16 expander modules (6 inputs per module), 16 LCD keypads (1zones per keypad), 16 LED keypads (1 zone per keypad) and a wireless receiver (32 inputs).

PROGRAMMING

8

All zones are fully programmable: the zone type, attributes and balance type (7 balance types are available) can be programmed as per requirements.

The standby, alarm and tamper threshold values of the zones can be programmed to provide "High Security" applications with the maximum level of protection.

The system can be divided into 32 independent partitions for

KYO 300 and 16 for KYO 100 all with stay/away control (stay mode can be activated with or without entry delay). All peripherals can be connected to the 4-wire serial bus.

The system can be controlled from LCD keypads, LED keypads or, on reader enhanced systems, via digital keys or proximity cards. The easy-to-follow "Tree-view" menus allows the installer to program the system without the aid of the installer manual. The KYO 300/KYO 100 is equipped with a multi-protocol digital dialler that manages 50 telephone numbers for central station communications.

SPECIAL APPLICATIONS

K3/VOX voice board enhanced systems can manage 62 voice messages, in cascade, for a total message time of 8 minutes. The KYO 300/KYO 100 scheduler can be programmed on a daily, weekly or Yearly basis. The scheduler can be programmed to arm/disarm the 32 partitions and enable/disable outputs, user codes, digital keys and proximity cards. The system can also be controlled from remote DTMF telephone. The K3/PRT printer board (optional) provides selective and continuous printouts of events



ORDER CODES

күозоо 8 zones control panel, expandable to 296 zones. Equipped with 5A Switching power supply and "multischeduling" timer Metal box.

KY0100

8 zones Control panel, expandable to 168 zones Equipped with 3,5A Switching power Metal box

FEATURES

- 8 programmable zones expandable to 312
 - 24h balanced tamper zone

- 3 supervised outputs 3A free-voltage relay (mod. KYO 300) 2 supervised outputs - 3A free-voltage relay (mod. KYO 100)
- 3 programmable 1A open-collector outputs
- Supports up to 32 6-zone remote expander modules (mod. KYO 300) supports up to 16 6-zone remote expander modules (mod. KYO 100)
- output each for mod. KYO 300) 116 outputs for mod. KYO 100
- Supports up to 32 LCD keypads, 2 zones per keypad (mod. KYO 300) supports up to 16 LCD keypads, 1 zone per keypad (mod. KYO 100)
- Supports up to 16 LED keypads. 1 zone and 1 open collector output per keypad
- Supports up to 32 wireless devices via wireless receiver VECTOR/RX
- Accepts up to 16 4-button wireless keys via wireless receiver VECTOR/RX
- 32 independent partitions all with stay/away control for mod. KYO 300 16 independent partitions - all with stay/away control for mod. KYO 100
- 7 zone balance types
- Programmable threshold values for all inputs
- Fixed or oscillatory option for each output with programmable oscillation type
- 200 user codes for mod. KYO 300 100 user codes for mod. KYO 100
- 16 programmable user code types
- Programmable arming modes for each key reader
- 4 Programmable arming modes for each code
- 2 Programmable arming modes for each reader
- Manages 500 keys and/or proximity cards
- 10.000 event logger with date and time for mod. KYO 300 1500 event logger with date and time for mod. KYO 100
- Each zone with own power terminals
- 5A switching power supply
- 4-wire double branch BPI bus
- Supports ECLIPSE and PROXI readers
- At-a-glimpse viewing of partition status on all keypad displays • "Negligency" time management for each partition
- Delinquency management for each

- 4 Arm/Disarm actions per day per partition selected from 16 programmable day types
- Scheduler for automatic holiday management (as per programming)
- Overtime request management
- Scheduler with daily, weekly or yearly management
- Automatic control of outputs by means of 64 timers each with 4 on/off operations and 16 programmable day types
- Scheduler for automatic control of codes, digital keys and proximity cards • Event filter
- Multi-protocol digital dialler
- Programmable test call
- Programmable callback
- Programmable double call
- Telephone line check
- 62 message voice dialler (requires optional K3/VOX voice board)
- Continuous recording (requires optional K3/VOX voice board)
- Recording quality option
- Voice driven menu via telephone line
- 50 telephone numbers for: telemonitoring, voice communications and teleservice
- Manages DTMF for full system management via DTMF telephones
- Main unit dimension (wxhxd): 339x488x108 mm
- Main unit weight (without battery): 5,55 kg





KYO

control panels

• Expandable to 118 outputs - via 16 remote expander modules (6 outputs each) and 16 LED keypads (1 • Supports up to 32 key/card readers (mod. KYO 300) - 16 key/card readers (mod. KYO 100)

• All partitions with own zones, keypads, readers, codes, keys, zone, cards, outputs and times • Partitions can be armed in stay or away mode (stay mode can be activated with or without entry delay

ACCESSORIES	куо100	күозоо
ALISON S	•	
ALISON-DVP	•	•
MIA-S*	•	
MIA-D*	٠	٠
ALISON- 8L		
ALISON32LP	•	•
ECLIPSE + SAT	•	•
PROXI + PROXI-CARD	•	•
M-IN/6	•	•
M-OUT/6	•	•
NC2/VOX		
VOX-REM	•	٠
B-ISOL	•	•
SECURITY SUIT	•	•
B-MOD B-MOD/RX	•	٠
VECTOR/RX	•	•
VECTOR/QUAD	•	•
VECTOR/RX8		
K3/VOX	•	•
K3/PRT	•	•
B-NET	•	٠
BXM 12/50-B	•	•
KST	•	•
*only with 1.30 firmware	release or h	igher





KYO 32

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The KYO 32 control panel has 8 zones, expandable to 32 zones. Especially designed for luxury residence and commercial applications. The system can be expanded via hardwired or wireless expander modules.

KYO 32 has 8 independent partitions, all with stay/away control (stay mode can be activated with or without entry delay). All peripherals can be connected to the 4-wire serial bus.

The KYO 32 can be controlled from LED or LCD keypads or, on reader enhanced systems, via digital keys or proximity cards. The first six Inputs of the KYO 32 accept vibration and roller-blind detectors (no Interface needed). The easy-to-follow "Tree-view" menu allows the installer to program the system without the aid of the installer manual.

The KYO 32 is equipped with a multi-protocol digital dialler for central station communications. NC2/VOX board enhanced systems can manage up to 8 voice messages, for a total of 90 seconds message time, and up to 8 telephone numbers for digital or voice diallers. The VECTOR/RX receiver (optional) allows to manage up to 8 wireless zones and 16 wireless keys.

The system partitions can be auto-armed independently on a weekly basis. The panels can also be controlled from remote DTMF telephone.

K32G



8 zone control panel, expandable

8 zone control panel, expandable

to 32 zones

Metal box.

to 32 zones

Policarbonate box KY032GP-SW1 8 zone control panel, expandable to 32 zones.

Policarbonate box.

to 32 zones.

Metal hox

ORDER CODES

күөзем

КҮОЗ2Р

FEATURES

- 8 programmable zones, expandable to 32
- 24h balanced tamper zone
- Supports up to 4×6 -zone remote expander boards (optional)
- Supports up to 32 wireless zones via VECTOR/RX (optional)
- Available in metal or plastic box
- Available with power terminal for each zone (KYO32G)
- 4 Balance type options per zone
- 1A Alarm relay
- Expandable to 16 outputs via 6-Output expander module • Supports up to 8 keypads on the 4-wire BPI bus
- Supports LED and LCD keypads
- Supports up to 16 readers on the 4-wire BPI bus
- Supports ECLIPSE and PROXI readers
- 8 independent partitions all with stay/away control
- All partitions with own zones, keypads, readers, codes, keys, cards, outputs and times
- 2 programmable arming modes for each code and for each key reader
- Auto-arming on a weekly basis for each partition
- Patrol bypass with auto-UnBypass
- 24 user codes (from 4 to 6 digits)
- 256 event logger with date and time
- 6 inputs for direct management of vibration and roller-blind detectors
- Multi-protocol digital dialler
- Programmable test call
- Programmable callback
- Programmable double call
- Telephone line check
- 8 message voice dialler (requires optional NC2/VOX Voice board)
- 8 telephone numbers for: central station communications, voice calls and teleservice
- Manages DTMF for full system management via DTMF telephones





control panels

• Supports up to 16 4-button wireless keyfobs via wireless receivers VECTOR/RX (optional)

3x150mA programmable open-collector outputs (5x500mA outputs on KY032G model)



ACCESSORIES	KY032	KYO32G
ALISON S	•	•
ALISON-DVP	٠	•
MIA-S	٠	•
MIA-D	•	•
ALISON- 8L	•	•
ALISON32LP	•	•
ECLIPSE + SAT	•	•
PROXI + PROXI-CARD	•	•
M-IN/6	•	•
M-OUT/6	•	•
NC2/VOX	•	•
VOX-REM	•	•
B-ISOL	•	•
SECURITY SUIT	•	•
B-MOD B-MOD/RX	•	•
VECTOR/RX	•	•
VECTOR/QUAD		
VECTOR/RX8	•	•
K3/VOX		
K3/PRT		
B-NET		
BXM 12/50-B		
KST		





Designed to simplify.

The new performer Kyo16D is the latest addition to the Kyo family. Thanks to the development of intelligent functions and easy installation, the Kvo16D is the ideal solution for the market segment that requires an ultra-economical, reducedcomplexity control panel providing the best in term of quality, reliability, performance and servicing.

This 6 zone control panel can be expanded by means of keypads and wireless zones. It supports 4 LED or LCD keypads (1 zone per keypad) and one VECTOR/RX8 wireless receiver (provides 8 zones) or VECTOR/RX wireless receiver (provides 16 zones for a wireless-zone only system).

This control panel can "double" the 6 zones on the main board in order to allow each zone to detect two different alarm types (zone doubling feature). This feature permits the control panel to manage 12 different alarm signals, each managed individually even with respect to the partitions.

This "hibrid" control panel manages 16 hard-wired zones which can be partly or totally transformed into wireless zones.

Choosing yet another control panel from the KYO family has its advantages: the programming procedure is exactly the same all the way through the range and KYO16D, like the rest of the family, embraces an engineer-friendly philosophy that allows the

installer to program the system with little or no need of the manual.

The KYO16D manages 4 partitions which in turn manage 4 independent sub-systems.

It is equipped with a multi-protocol digital communicator (manages 8 telephone numbers) for all central station communications.

Designed to simplify, the KYO16D provides a cascade of high-tech functions at an interestingly low price. Value-driven technology at a price that is hard to resist.



FEATURES

- "Hybrid" control panel (hardwired and wireless zones)
- Up to 16 zone fully-programmable zones
- 6 zones on main board
- "Doubles" the 6 zones on the main (zone doubling, provides 12 zones)
- 2 zones for direct management of vibration and rollerblind detectors
- Up to 4 LED or LCD keypads (1 zone per LCD keypad)
- Up to 16 wireless zones using VECTOR/RX wireless receiver (8 for VECTOR/RX8)
- Up to 16 wireless keys zones using VECTOR/RX or VECTOR/RX8 wireless receiver
- Up to 8 proximity key/card readers
- Up to 128 proximity key/cards
- 1 alarm relay (1A) with connection supervision with siren
- 2 programmable open collector output (150mA)
- 4 independent partitions with stay or away arming (day/night mode)
- Auto-arming on a weekly basis for each partition
- 24 user codes (4 to 6 digits)
- 256 event memory with date and time details
- Multi-protocol digital communicator
- On board up-download modem for remote programming and management
- Dimension (wxhxd): 235x269x77mm
- Weight: 3 Kg (without battery)

ORDER CODES

KYO16DM

Control panel with 6 zones expandable to 16. Linear power supply 1A. Metal box



control panels



ACCESSORIES	KY016D
ALISON S	•
ALISON-DVP	•
MIA-S	•
MIA-D	•
ALISON- 8L	•
ALISON32LP	
ECLIPSE + SAT	•
PROXI + PROXI-CARD	•
M-IN/6	
M-OUT/6	
NC2/VOX	
VOX-REM	
B-ISOL	•
SECURITY SUIT	•
B-MOD B-MOD/RX	•
VECTOR/RX	•
VECTOR/QUAD	
VECTOR/RX8	•
K3/VOX	
K3/PRT	
B-NET	
BXM 12/50-B	
KST	





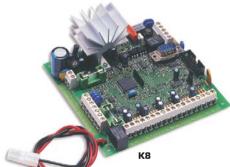
KYO 8 - KYO 4

KYO 4 and KYO 8 are the smallest control panels of the range. KYO 4 has 4 zones and KYO 8 has 8 zones. Especially designed for small domestic to medium commercial applications, both systems provide the same functions, and have 4 completely independent partitions, all with stay/away control (stay mode can be activated with or without entry delay).

The system can be controlled from LED or LCD keypads or, on Reader enhanced systems, via digital keys and proximity cards. All the KYO 4 inputs, and six of the KYO 8 inputs accept vibration and roller-blind detectors (no Interface needed). Both systems can be programmed via LCD keypad or computer.

The easy-to-follow "Tree-view" menu allows the Installer to program the systems without the aid of the Installer manual. Both control panels are equipped with multi-protocol digital diallers for all central station communications. NC2/VOX board enhanced systems can manage up to 8 voice messages, for a total of 90 seconds message time, and up to 8 telephone numbers for digital or voice diallers. The VECTOR/RX receiver (optional) allows the KYO8Wxx to manage up to 8 zones and 16 wireless keys.

The KYO 8/4 partitions can be auto-armed independently on a weekly basis. The panel can also be controlled via remote DTMF telephone.









FEATURES

- 8 programmable zones (4 for KYO 4)
- 24h balanced tamper zone
- Up to 8 wireless inputs via VECTOR/RX remote receiver (K8W and K8GW only)
- Available in metal or plastic box
- Available in 8 zone version with power terminals for each zone (KYO 8Wxx)
- 4 balance type options per zone
- 1A Alarm relay
- 3 Programmable 150mA open-collector outputs (5 x 500mA outputs on KYO 8G)
- Supports up to 8 keypads on the BPI bus
 - Supports LED and LCD keypads
 - Supports up to 16 readers on the BPI bus
 - Accepts ECLIPSE and PROXI readers
 - 4 independent partitions all with stay/away control
 - All partitions with own zones, keypads, readers, codes, keys, cards, outputs and times
 - 2 programmable arming modes for each code and for each key reader, with or without delay
- Auto-arming on a weekly basis for each partition
- Patrol bypass with auto-Unbypass
- 24 User codes (from 4 to 6 digits)
- 128 event logger with date and time
- 6 inputs (4 for KYO 4) for vibration and roller-blind detectors
- Multi-protocol digital Dialler
- Programmable test call
- Programmable callback
- Programmable double call
- Telephone line check
- 8 message voice dialler (requires optional NC2/VOX voice board)
- 8 telephone numbers for: central station communications, voice calls and teleservice
- Manages DTMF for full system management via DTMF telephones

<u>КҮО8М</u>	Control panel with 8 zones. 1A linear power supply. Metal box
<u>КҮО8Р</u>	Control panel with 8 zones. 1A linear power supply. Polycarbonate box.
KY08GP-SW1	Control panel with 8 zones. 1.5A switching power supply. Polycarbonate box.
KY08GL-SW1	Control panel with 8 zones. 1.5A switching power supply. Metal box.
күовшм	Control panel with 8 zones with wireless interface. 1A linear power supply. Metal box.
KYOSWP	Control panel with 8 zones with wireless interface. 1A linear power supply. Polycarbonate box.
КҮО4М	Control panel with 4 zones. 1 A linear power supply. Metal box.
KYO4P	Control panel with 4 zones. 1 A linear power supply.

Polycarbonate box.

ORDER CODES



control panels



ACCESSORIES	ку08	KY08G	K8W	KY08GW	кү04
ALISON S	•	•	•	•	•
ALISON-DVP	•	٠	٠	•	•
MIA-S	•	٠	•	•	٠
MIA-D	•	٠	•	•	٠
ALISON- 8L	•	٠	•	•	•
ALISON32LP	•	•	•	•	•
ECLIPSE + SAT	•	٠	•	•	•
PROXI + PROXI-CARD	•	•	•	•	•
M-IN/6					
M-OUT/6					
NC2/VOX	•	•	•	•	•
VOX-REM	•	•	•	•	٠
B-ISOL	•	•	•	•	•
SECURITY SUITE	•	•	•	•	•
B-MOD B-MOD/RX	•	•	•	•	٠
VECTOR/RX			•	•	
VECTOR/QUAD					
VECTOR/RX8			•	•	
K3/VOX					
K3/PRT					
B-NET					
BXM 12/50-B					
KST					





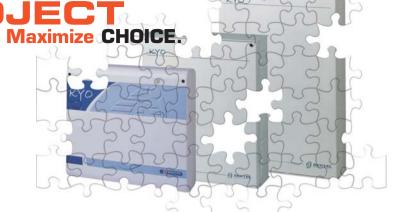
KYO UNIT PROJECT

The UNIT concept was created with customer participation to maximize installers satisfaction by ensuring that the right system configuration is always available while minimizing inventory costs. Having the flexibility to quickly and easily match the system's configuration to installation requirements, is an important strategic factor on how we approach our market.

Doing this reduces the risk of not having the right type of cabinet, plastic or metal, or the needed size of control panel for the job.

Having the right system configuration on site reduces installation delays and costs by eliminating the need to source and install additional unplanned equipment. The result is a satisfied customer and improved profits.

Availability of needed product configurations is vital for the success our business and the UNIT concept does just that. It creates the essential links among hardware components, allowing for the delivery of a "ready-to-go" tailored system.



This is achieved by offering KYO control panels, cabinets, modules, transformers and power supplies as individual packages where components can be mixed and matched to create up to 20 different KYO system configurations.

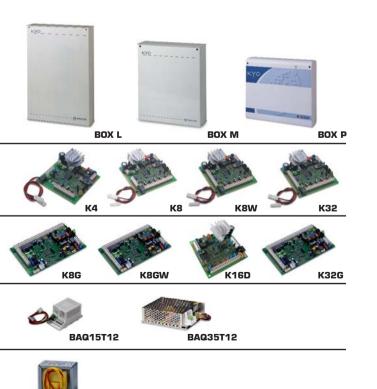
CONTROL PANELS

KYO4M	KYO 4 control panel in metal box with 1A transformer
KYO8M	KYO 8 control panel in metal box with 1A transformer
KYO8WM	KYO 8 control panel in metal box with 1A transformer with wireless management
күозем	KYO 32 control panel in metal box with 1A transformer and wireless management
KYO4P	KYO 4 control panel in polycarbonate box with 1A transformer
KY08P	KYO 8 control panel in polycarbonate box with 1A transformer
KYO8WP	KYO 8 control panel in polycarbonate box with 1A transformer with wireless management
KYO16DM	KYO control panel with 6 zones on the main board expandable to 16. Power Supply 1 A
KY032P	KYO 32 control panel in polycarbonate box with 1A transformer and wireless management
KYO8GP-SW 1	KYO 8G control panel in polycarbonate box with 1.5A switching power supply
KYO8GP-SW 2	KYO 8G control panel in polycarbonate box with 3A switching power supply
KYO8WP-SW 1	KYO 8G control panel in polycarbonate box with 1.5A switching power supply and wireless management
KYO8WP-SW 2	KYO 8G control panel in polycarbonate box with 3A switching power supply and wireless management
KYO32GP-SW 1	KYO 32G control panel in polycarbonate box with 1.5A switching power supply and wireless management
KYO32GP-SW 2	KYO 32G control panel in polycarbonate box with 3A switching power supply and wireless management
KYO8GL-SW 1	KYO 8 "large" control panel in "large" metal box with 1A switching power supply
KYO8GL-SW 2	KYO 8 "large" control panel in "large" metal box with 3A switching power supply
KYO8GWL-SW 1	KYO 8 "large" control panel in "large" metal box with 1.5A switching power supply and wireless management
KYO8GWL-SW 2	KYO 8 "large" control panel in "large" metal box with 3A switching power supply and wireless management
KYO32GL-SW 1	KYO 32 "large" control panel in "large" metal box with 1.5A switching power supply and wireless management
KYO32GL-SW 2	KYO 32 "large" control panel in "large" metal box with 3A switching power supply and wireless management

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COMPONENTS

К4	4 zone KYO main board
K8	8 hardwired zone KYO main board
K8W	8 hardwired/wireless zones KYO main board
K16D	8 hardwired/wireless zones KYO main board
	expaldable 16
K32	8 zone KYO main board expandable to 32 zones
K8G	8 hardwired zones KYO main board,"G" version
	with separate power terminals for each zone
K8GW	8 hardwired/wireless zones KYO main board,
	"G" version with separate power terminals for
	each zone
K32G	8 zones KYO main board expandable to 32
	zones "G" version with separate power terminals
	for each zone
BOX-L	Metal box for K8G and K32G boards.
	May to put switching power supply BAQ15T12
	and BAQ35T12
BOX-M	Metal box for K4, K8 and K32 boards
MAXIASNC	Anti tamper device for BOX-M
BOX-P	Policarbonate Box for K4, K8, K16D, K32, K8G
	and K32G boards
ASNC	Anti tamper devices for MIA keypad and BOX-P
TRF-UNIT	1A transformer for K4, K8, K16D and K32
	boards
BAQ15	1,5A switching power supply for K8G
	and K32G boards. To be put in BOX-P
BAQ35T12	3,5A switching power supply for K8G
	and K32G boards. To be put in BOX-P
KYO-I	Manuals set for Kyo



TRF

	BOX L	BOX M	BOX P	К4	K8	K8W	K16D	K32	K8G	K8GW	K32G	TRF	BAQ15 T12	BAQ35 T12	Wireless manag.
KYO4M		•		•								•			
KY08M		•			•							٠			
KY08WM		•				•						٠			•
KYO32M		•		٠				٠				٠			•
KYO4P			•		•							٠			
KY08P			•									٠			
KY08WP			•			•						٠			•
KYO16DM		•					•					٠			•
KYO32P			•									٠			•
KYO8GP-SW1			•					٠					•		
KYO8GP-SW2			•						•					•	
KYO8GWP-SW1			•						•				•		•
KYO8GWP-SW2			•							•				•	•
KYO32GP-SW1			•							•			•		•
KYO32GP-SW2			•								•			•	•
KYO8GL-SW1	•								•		•		•		
KYO8GL-SW2	•								•					•	
KYO8GWL-SW1	•												•		٠
KYO8GWL-SW2	•													•	٠
KYO32GL-SW1	•									•			•		٠
KYO32GL-SW2	•									•				•	•

control panels





KYO UNIT control panel models



ACCESSORIES

ALISON S - ALISON-DVP Control keypad with backlit LCD

MIA-S - MIA-D LCD keypad "High Vision"

ALISON- 8L LCD keypad with 8 zone LED's + 8 signal LED's

ALISON32LP LCD keypad with 32 zone LED's + 8 signal LED's Built-in proximity reader

ECLIPSE + SAT Proximity key reader Proximity key Available in several different designs

PROXI + PROXI-CARD Proximity key/card reader for indoor/outdoor use (IP34)

M-OUT/6

M-IN/6 Remote 6 imput expander module

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NC2/VOX 8 message voice board (90 seconds message time)

Remote 6 output expander module

VOX-REM Additional speaker and listen-in module

B-ISOL BPI-BUS Isolator

SECURITY SUITE Integrated software for management local and remote Bentel control panel

B-MOD Teleservice modem B-MOD/RX Modem for teleservice and central stations with alarm reception PC software (maps, icons, reports)

VECTOR/RX Remote Receiver, support up to 32 wireless devices VECTOR/QUAD Multiple remote receiver wireless

K3/VOX 64 message voice board (8 minutes message time)

K3/PRT Printer interface board

BXM 12/50-B 5A-BPI power supply station

KST Thermal probe kit

ACCESSORIES				KYO	CONTR	OL PA	NELS			
	К4	K8	K8G	K8W	K8GW	K16D	K32	K32G	KY0100	KY0300
ALISON-S	٠	•	•	•	•	•	٠	•	•	
ALISON-DVP	•	•	•	•	•	•	•	•	•	•
MIA-S	•	•	•	•	•	•	•	•	•*	
MIA-D	٠	•	•	•	•	•	•	•	•*	•
ALISON8L	٠	•	٠	•	•	•	٠	•		
ALISON32LP	•	•	•	•	•		•	•	•	•
ECLIPSE+SAT	•	•	•	•	•	•	•	•	•	•
PROXI+PROXICARD	•	•	•	•	•	•	•	•	•	•
M-IN/6							•	•	•	•
M-OUT/6							•	•	•	•
NC2/VOX	•	•	•	•	•		•	•		
VOX-REM	•	•	•	•	•		•	•	•	•
B-ISOL	•	•	•	•	•	•	•	•	•	•
SECURITY SUITE	•	•	•	•	•	•	•	•	•	•
B-MOD	•	•	•	•	•	•	•	•	•	•
B-MOD/RX	•	•	•	•	•	•	•	•	•	•
VECTOR/RX				•	•	•	٠	•	•	•
VECTOR/QUAD									•	•
VECTOR/RX8				•	•	•	•	•		
K3/VOX									•	•
K3/PRT									•	•
B-NET									•	•
BXM12/50-B									•	•

KYO FAMILY CODES

KYO 300 KYO 100	
KY0300	8 zones multifunction control pan
KY0100	5A switching power supply. Metal 8 zone multifunction control pane receivers. 3.5A switching power s
KYO 32	
KY032M	8 zones control panel expandable
	Metal box.
KYO32P	8 zones control panel expandable
	Polycarbonate box.
KY032GP-SW1	8 zones control panel expandable
	Polycarbonate box.
KY032GL-SW1	8 zones control panel expandable Metal box.
KYO 16	
KY016DM	6 zones control panel expandable
KTO TODAT	Metal box.
KYO 8	
KY08M	8 zones control panel. 1A linear p
KY08P	8 zones control panel. 1A linear p
KY08GP-SW1	8 zones control panel. 1.5A swite
KYO8GL-SW1	8 zones control panel. 1.5A switc
KYO8WM	8 zone control panel with wireless
KY08WP	8 zone control panel with wireless
<u>КҮО 4</u> КҮО4М	4 zones control panel. 1A linear p
КҮО4Р	8 zones control panel. 1A linear p
Sistema KYO Unit	
K4	4 hardwires zones KYO main boa
K8	4 hardwires zones KYO main boa
K8W	8 hardwired/wireless zones KYO
K16D	Control panel with 6 zones on the
K32	8 hardwired/wireless zone KYO n
K8G K8GW	8 hardwired zone KYO main board 8 hardwired/wireless zone KYO n
ROOVV	each zone.
K32G	8 hardwired/wireless zone KYO n
KJEO	each zone, expandable up to 32 z
BOX-L	Metal box for K8G and K32G boa and BAQ35T12.
BOX-M	Metal box for K4, K8 and K32 bo
MAXIASNC	Anti tamper devices for BOX-M.
BOX-P	Policarbonate box for K4, K8, K3
ASNC	Anti tamper devices for MIA keypad
TRF-UNIT	1A transformer for K4, K8 and K
BAQ15	1,5A switching power supply for I
BAQ35T12	3,5A switching power supply for I
KIT ISTRUZIONI	Manuals set for Kyo.

*Only with 1.30 firmware release or higher

----1 unt

1112

tunna 1

E HUHHH 2















control panels



nel, expandable to 312 zones. al box. el, expandable to 168 zones with interface for wireless supply. Metal box. to 32 zones. 1A linear power supply.

to 32 zones. 1A linear power supply.

to 32 zones. 1.5A switching power supply.

to 32 zones. 1.5A switching power supply.

to 16 zones. 1A linear power supply.

power supply. Metal box. power supply. Polycarbonate box. ching power supply. Polycarbonate box. ching power supply. Metal box. s interface. 1A linear power supply. Metal box. ss interface. 1A linear power supply. Polycarbonate box.

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power supply. Metal box. power supply. Polycarbonate box.

ard.

ard.

) main board.

e main board expandable to 16.

main board expandable up to 32 zones.

rd "G" version with separate power terminals each zone. main board "G" version with separate power terminals

main board "G" version with separate power terminals zones.

ards. May to put switching power supply BAQ15T12

oards.

32, K8G and K32G boards. ad and BOX-P. K32 boards. K8G and K32G boards. To be put in BOX-P. K8G and K32G boards. To be put in BOX-P.



KYO control panels specifications

Features	KYO4	KY08	KY016D	KY032	KY0100	KY0300
Power Supply	LINEAR 1A	LINEAR 1A Swithing 1,5A Swithing 3A	LINEAR 1A	Swithing 1,5A Swithing 3A	Swithing 3A	Swithing 5A
nput zones Dn-board Zones	4	8	6	8	8	8
Vlaximun Number of Zones	4	8	16	32	168	312
Maximun Number of Wireless Zones	N/A	8 "W" version	12	32	32	32
Vaximun Number of Keypads Zone tipes/Option		3	4/6	8	32 8/	48
					NC/NA E	
Zone Supervision		NC/NA	EOL DEOL		CUST	
More than one partition per zone			,	Y		
Command imput			,	Y		
Keyswitch, reset, arm) Thresholds setting per zone			N	T		Y
Vibration/shock			N			Y
Vibration/Shock sensor imput zones	Up to 4	Up to 6	Up to 2	Up to 6	N	/Α
						,
Outputs Beel Circuit Power		4			O polovi EA poob	2 polov EA opob
Number of On-board Outputs	1 relav +	3 PGM's	lay - 3A 1 relay +	1 relay +	2 relay - 5A each 2 relay +	3 relay - 5A each 3 relay +
	(5 PGM's -		1 relay + 2 PGM's	3 PGM's	2 relay + 2 PGM's	3 relay + 3 PGM's
Maximun Number of expanders Output		0		2		16
Maximun Number of Outputs		1	3	15	116	118
					Fully programmab	le: polarity, timing,
Dutput Options		30 (individu	al per partition)		oscillation, events (m	ore than 2000], etc.
Super vised bell circuit	No	<u> </u>	v	No	NO	Y (3 on the main boa
Super vised bell cilicate	up to 3 usi		up to 2 using PGM's	Yes, using PGM's		ing PGM's
Bell Output by Partition	and rela		and relay board	and relay board		elay board
	Omnia		Omnia/4R	Omnia/4R		nia/4R
Bus				· ·		
Type of Communication Bus				Bus +		
Max. Length of Communication Bus			KEY	/BUS		
Max. Lengur of Communication Dus	500 m is th	e maximum distance fro	om one module to the	panel - The voltage drop of	each run have to be less than	1.5 V
Number of loops			1		2	2
Number of Keypads			8		16 (1 zone each)	32 (2 zone each)
			-	-	16 (1zone each)	16 (1zone each)
Number of Key/CARD readers	16		8	16	16	32
Number of input expansions		N/A		4 (6 zones each)	16 (6 zones each) 16 (6 P(32 (6 zones each) GM's each)
Number of output expansions Number of power supply stations		N/A N/A		2 (6 PGM's each) O		A each)
Partition		N/A			0 (5)	a eachj
Numbers of Partitions		4		8	16	32
Arming types per partition			Away, Sta	ay, Stay with zero delay		
Codes/Keys						
Number of User Codes			24		97	195
Master Codes			to 24 6		Up to 97	Up to 195
Code options Code length			(individual)		4 to 6 (individual)	32 4 to 6 (individual)
Number of Keys or cards			28			
Communications					I	
Telephone numbers			8			50
Central Station Phone Numbers		Up	to 8			to 50
Account codes			8		97	195
SIA Contact ID	ľ	1	Y	N N		Y
Pulse Formats (3/1, 4/2)			,	Ŷ		
Phone line monitor				Y		
Backup cellular support			BGSM-A	/ BGSM-I		
Periodic test trasmission				Y		
"True" Partitions or Split Arming				partition)		
Split Reporting by Partition Two-way Capability	Optional (N		N	Optiona (NC2/VOX)	Ontiona	I (K3/VOX)
Wireless capability					Ориона	
Number of wireless Receivers	N/A	1 "W" version	1 "W" version		1	
Wireless Key Support	N/A			Y (16)		
Pendant Support	N/A			Y		
Programming/Monitoring				1		
Keypad programming Remote Downloading				ain text		
Remote Downloading				Gecurity Suite) odem cable)		
Communications Baud Rate				idem) 9600		
				cable to PC)		
Automatic baud rate adjustment				Υ		-
				5 N 105 51/		
Modem Types Supported Remote monitoring and control	V Doo	tel Security Suito, Gaso	B.MOD	B.MOD-RX menti - stato- attivazione/disa	ttivazione usoite burgoool	
Periodic Downloading	i – Dell	co. Occur ity Durite (20118		Y	алагоно авоно, руразај	
Telephone options						
Double Call				Y		
Programmable number of Ring				Y		
User-initiated Call-up				Y		
Callback				Y		
Other	Δοσ	, Disarm,		Arm, Disarm,		
		s ON/OFF,		Outputs ON/OFF,	With optional board Disarm, Outputs ON/0	
		call end. – With		Telephone call end. – With	end, Listen-in, Two-wa	
	optional N	VC2/VOX also		optional NC2/VOX also	status with voi	
	available Liste	en-in and Two way	N	available Listen-in and Two way		
Remote Phone Command				· · · · · · · · · · · · · · · · · · ·		
Remote Phone Command						
Remote Phone Command			V (*	256)	Y (1500)	Y (10000)
Remote Phone Command	v	(128)	ן לנ		Y (4 arm and 4 disarm per	Y (4 arm and 4 disar
Event Buffer	Y	(128) Y (per day	ner nartition)			per day per partition
Event Buffer	Y		per partition)		day per partition)	
Remote Phone Command Event Buffer Automatic Arming	Y				day per partitionj	64 (programmable
Event Buffer	Y		per partition)		32	64 (programmable of daily, weekly or year
Event Buffer Automatic Arming Timers	Y	Y (per day	0		32	64 (programmable daily, weekly or year basic)
Event Buffer Automatic Arming Timers Delinquency (inactivity)	Y	Y (per day Per parti	O tion in hours		32 Per partitic	64 (programmable daily, weekly or year basic) on in minutes
Event Buffer Automatic Arming Timers Delinquency (inactivity) Negligency	Y	Y (per day Per parti	0 ition in hours		32 Per partitio Per partition in m	64 (programmable of daily, weekly or year basic) on in minutes inutes (60000 max)
Event Buffer Automatic Arming Timers Delinguency (inactivity) Negligency Zone status by voice messages	Y	Y (per day Per parti	D tion in hours ition in days N		32 Per partitio Per partition in m	64 (programmable of daily, weekly or year basic) on in minutes inutes (60000 max) optional board)
Event Buffer Automatic Arming Timers Delinquency (inactivity) Negligency	Y	Y (per day Per parti	0 ition in hours		32 Per partitio Per partition in m	64 (programmable c daily, weekly or year basic) on in minutes inutes (60000 max)

NORMA4 - NORMA8

Simple and reliable for a quick intallation.

Norma4 and Norma8 control panels provide 4 and 8 zones respectively and they are available with mechanical or electronic key on board.

All versions support up to 8 readers and 8 remote keypads. This interesting control panel provides programmable input zones and function modes, auxiliary inputs and outputs, dialler facility, partitioning option and siren battery test.

FEATURES

- Available with electronic or mechanical key on board
- 1 24h tamper zone
- 4 groups of zones for system partitioning
- 1 programmable alarm-relay
- 1 telephone-dialler output
- 1 programmable open-collector output
- Inputs for remote arm/disarm and group bypass
- Possibility of zone bypass for patrol with automatic un-bypass
- Input for self-powered siren battery check
- Built in digital key with possibility to connect up to 8 electronic-key readers
- Possibility to connect up to 8 LED-keypads to manage the system
- 6 access codes with different priority and functions
- Easy programming via panel or from the remote keypads
- Power supply/battery-charger: 1.5A
- Housing for battery up to 12 V 7 Ah
- Power supply: 230 Vac ±10%
- Dimensions (wxhxd): 308x232x85 mm
- Remote keypad (wxhxd): 160x73x25 mm
- Weight (without battery): 1.9 Kg.

ACCESSORIES

ALISON/8L LCD keypad with 8 zone LED's + 8 signal LED's

ECLIPSE + SAT Proximity key reader + Proximity key

B-ISOL BPI-BUS Isolator

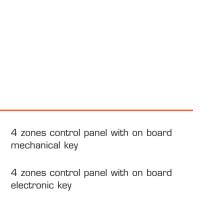


control panels





• 4 or 8 programmable input zones (immediate, delayed, path, 24h, fire, balanced, NC, NO, Chime, Test)



NORMA8/N 8 zones control panel with on board mechanical key

NORMA8/T 8 zones control panel with on board electronic key



ORDER CODES

NORMA4/N

NORMA4/T











keypads and management devices

ALISON

ALS-S

- Smart low-profile design
- Small dimension
- 3 signal LED's
- 1 imput zone • Easy access to control panel menu
- Down flip
- Compatible with KYO series expandable control panels
- "ASNC" snatch protection microswitch (optional)



A 0 8 0

MIA

MIA-D / MIA-S

- Actractive design
- "High Vision" display
- 4 signal LED's
- 2 imput zones (1 in MIA-S)
- Down flip
- Compatible with KYO series expandable control panels
- Optional "ASNC" micro switch for snatch protection

PROX

PROXI

• Proximity key/card reader for indoor/outdoor use (IP34)

PROXI-CARD

Proximity card

ALS-DVP

- Smart low-profile desgin
- Small dimension
- 4 signal LED's
- 1 input zone
- Built-in proximity reader
- Easy access to control panel menu
- Down flip
- Compatible with KYO series expandable control panels
- "ASNC" snatch protection microswitch (optional)

ALS-32LP

- LED keypad
- 32 zones LED's and 8 signal LED's
- Built-in proximity reader
- 1 imput zone + 1 open collector output
- Down flip
- Compatible with KYO series expandable control panels
- "ASNC" snatch protection microswitch (optional)

ALS-8L

- LED keypad
- 16 signal LED's
- Down flip
- Compatible with KY04, KY08, KY016D, Norma4, Norma8
- "ASNC" snatch protection microswitch (optional)







ECLIPSE

• Proximity key/card reader for indoor/outdoor use (IP34). Available in several different types

SAT

• Proximity key



keypads and management devices

















wireless systems

VECTOR

VECTOR/RX

The VECTOR/RX system has been purpose designed to satisfy the market request for a security system that protects both the premises and its perimeters.

VECTOR/RX is able to interface between hardwired and wireless burglar systems, and thus finds its niche in installations where the consolidated reliability of hardwired detectors cannot be applied. This innovative product allows the installer to kit-out hybrid burglar systems with a wide range of wireless devices. It supports up to 32 wireless devicess (31 for KYO32 and KYO32G) and 16 keyfobs.

It can be connected to Bentel Security's KYO8W, KYO8G, KY016D, KY032, KY032G, KY0100 e KY0300, control panels by means of serial bus, or to other brands of control panels by means of the apposite outputs.

The VECTOR/RX is fully compatible with all brands of control panels and offers installers maximum flexibility, and quick and easy installation.

VECTOR/RX8

Wireless receiver for KYO secutiry control panel with the same features of VECTOR/RX but with 8 zones.

VECTOR/BRIDGE

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Vector/Bridge is a kit integrating Vector receiver together with a device that allows to connect it to different control panels. equipped with 16 open collector outputs. One of the many interesting features of this product is its memory, that provides information on events such as: low-battery, detector trouble, jamming, and also, information on alarms that occur exclusively during armed status. By means of this detailed information it is possible to expand the initial capacity of small control panels.

FEATURES

- 8 open-collector outputs for alarms
- 1 open-collector output for tamper
- 1 open-collector output for low battery
- 1 open-collector output for trouble
- 1 open-collector output for jamming
- 4 open-collector outputs for wireless keys
- Double display with 7 segments
- 1 armed/disarmed input
- 1 view and memory reset input
- 12V power supply only in stand-alone

ACCESSORIES

BPI/LINK Vector serial link









VECTOR/QUAD

Repeater for VECTOR/RX receiver.

The VECTOR/Quad connects to the primary keybus of a control panel and provides 4 secondary 4-wire connections for up to four wireless receivers. The VECTOR/Quad does not provide additional zones but enables the 32 zones to be distributed over a greater area.

FEATURES

- Voltage Range: 12VDC 14VDC
- Current: 55mA, plus current draw of each receiver module connected
- Compatible receiver modules: VECTOR/RX and VECTOR/RX8
- Compatible control panels KY0100 and KY0300
- LED field
- Zone supervision
- Zone tampers, violations and restorals
- Module tampers and troubles

ORDER CODES

- VECTOR/RX Wireless receiver 32 zones for KYO control panel
- VECTOR/RX8 Wireless receiver 8 zones for KYO control panel
- VECTOR/BRIDGE Wireless universal interface and receiver for security panels

wireless systems







ORDER CODES

Repeater for VECTOR/RX receiver (up to 4 rec.)

BEN

SECURI



wireless systems





TECHNICAL FEATURES Code combinations: 1048576

ARC20

Keyfob.





- TECHNICAL FEATURES
 Cover: 26 beams on 4 levels, long, ledium and Short-range
 Battery: Lithium mod. CR123A





AMC30

30

The AMC3O is a wireless door/windows magnetic contact with auxiliary input for rollerblind detector.

TECHNICAL FEATURES

- Code combinations: 1048576
- Dimensions (wxhxd): 33x58x12 mm
- Batteries: 2 Lithium batteries mod. CR123A

Dimensions (wxhxd): 33x58x12 mm
Batteries: 2 Lithium batteries mod.CR2025



AMC10

Wireless magnetic door/window contact.

TECHNICAL FEATURES

- Dimensions (wxhxd): 88x31x30 mmBattery: Lithium mod. CR123A





ASD20 Wireless smoke detector.

TECHNICAL FEATURES

- Dimensions: base diameter 147 mm, height 52.8 mm
- Batteries: 2 Lithium batteries mod. CR123A

ORDER CODES	
ARC20	Keyfob
AMD10	Wireless pet-immune PIR detector
AMC10	Wireless magnetic door/window contact
AMC30	Wireless door/windows magnetic contact with auxiliary input for rollerblind detector
ASD20	Wireless smoke detector



BENTEL SECURITY FOR A SAFER WORLD







BGSM-I

The BGSM-I gives total confidence in all security and surveillance applications and is the ideal way of completing whatever system. It provides advanced communication features through the GSM network and can be used in numerous telematic applications.

BGSM-I functions:

BACKUP LINE (SIMULATED LAND LINE)

The BGSM-I simulated land line feature provides traditional telephone devices with a backup line. The BGSM-I will switch to the simulated line in the event of land line trouble (line down). Under normal circumstances, neither the BGSM-I nor the connected telephone device will require programming.

SMS DIALLER

The SMS dialler function manages 8 telephone numbers and, when the status changes occur on its 4 inputs, provides the respective message. The SMS dialler function also sends trouble alert, periodic transmission and pay-as-you-go balance messages (pre-paid SIM cards).

HOUSEHOLD APPLIANCE MANAGEMENT VIA SMS

The BGSM-I can recognize the incoming SMS messages (with password protection) and turn On/Off the 4 outputs available for this function.

GATE CONTROL FUNCTION

The BGSM-I provides 95 programmable telephone numbers. On recognition of an incoming call from any of these numbers, the device will activate the respective output ("Gate Control") without answering the call. This feature in cost free.

CONTACT ID DIALLER

The BGSM-I sends input, PSTN line and power supply status reports to central stations using Contact ID reporting format, and also sends periodic messages. These communications can be sent to 4 telephone numbers.

The BGMS-I is protected against tamper and provides tamper signalling on two terminals. This device can be programmed and controlled via a user-friendly PC software application (accessory item)

ACCESSORIES

ADP1512 AC adapter 100 - 240 Vac imput 13.8 Vdc output





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BGSM-I/EU
                GSM dialer and interface
                900/1800MHz
```

BGSM-1

O BENTEL

BGSM-I/AM GSM dialer and interface 850/1900MHz



- Simulates PSTN line (backup line)
- Compatible with whatever control panel
- Switches automatically to GSM network in the event of PSTN trouble (line down)
- 8 telephone numbers (max. 20 digits) for SMS dialler
- 4 telephone numbers (max. 20 digits) for Contac ID communicator
- 95 telephone numbers (max. 20 digits) for remote control of the outputs
- 4 inputs for SMS Dialler and Contac ID communicator activation with 2 SMS messages, user codes and
- Contac ID event for each input Programmable Input-activation polarity
- Send SMS and Contac ID "Trouble" reports
- Send SMS and Contac ID "Periodic" reports
- Pav-As-You-Go balance report
- 4 programmable open-collector outputs (monostable or bistable)
- Remote control by means of SMS message to BGSM-I
- Remote control feedback (SMS message of ring)
- Outputs can be used for device status signals
- Incoming and outgoing call mamagement
- SIM card can be programmed via GSM cellphone or software application
- Dimensions (wxhxd): 138x224x55 mm
- Weight (without battery): 900 gr

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BGSM-A

BGSM-A is the state of the art for the integration between security systems and GSM communication.

It can be simply and cost-effectively integrated with all alarm systems, and can operate as a GSM interface, voice dialler, SMS dialler and remote control via SMS.

The BGSM-A Interface facility allows ordinary two-wire PSTN telephones to switch to the GSM network in the event of PSTN Trouble (line down). The simulated line, provided by the BGSM-A, supplies the line and ring voltage, thus allowing the hardwired telephone device to operate as a wireless device. The BGSM-A can also operate as a 4 channels SMS dialler. In fact, it provides 4 inputs (channels), each able to manage 2 text messages (SMS). that will be sent when the channel status changes.

The 4 input channels can also be used to activate the GSM voice dialler facility.

The BGSM-A can be used in numerous telematic applications, and it is the perfect way to complete a security system. Available in two models: BGSM-A/12 powered by 13,8Vdc; BGSM-A/230 powered from mains.



B-TEL99

The B-TEL99 voice telephone dialler is the best way to complete an installation that requires a voice dialler.

It has 2 alarm channels, and is able to monitor 2 distinct events (e.g. the burglary alarm and fire alarm). The B-TEL99 offers advanced management of alarm messages, the recording time (32 seconds) can be divided into one, two or three messages as required.

The messages are recorded on a solid-state memory. The quality of recorded messages may be checked on the built-in loudspeaker. By dialling the user code on the telephone keypad, the user who receives an alarm call from the B-TEL99, can listen in on the environmental sounds picked up by the dialler microphone, and consequently, decide consequently on the action.

The user code can also interrupt the alarm calls from the B-TEL99 keypad. The programmable installer code accesses programming, which is made quick and easy by the alphanumeric keypad and LED display. The B-TEL99 event logger allows viewing of the result of the last 255 calls.

The attractively designed plastic box is perfect for on-view installation.

FEATURES

- Supplies a simulated PSTN line
- 4 Inputs for the activation of voice and SMS dialler (optional NC2/VOX board required for voice dialler)
- 2 SMS messages available on each input
- Programmable Voice/SMS dialler-channel activation polarity
- 8 telephone numbers available for the Voice/SMS dialler facility
- 5 outputs open collector (150mA)
- Output control via SMS
- Outputs can be used for status and troubles signalling
- Programmable output-activation polarity
- Management of incoming and outgoing calls
- Incoming and outgoing call LED's
- Signal strength indicator
- Display for device status signalling
- Includes prefix when operating in Interface mode
- Dual-band

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- SIM card programmable via any GSM cellphone, or via a specific software application (runs under Windows)
- Calls register available via software
- Dimensions antenna excluded (wxhxd): 141x233x59 mm
- Weight (without battery): 1,29 Kg (BGSM-A/12); 1,6 Kg (BGSM-A/220)

ACCESSORIES

NC2/VOX

Voice board: 8 messages for a total of 90 seconds

GSM-LINK Serial link for GSM cellular net interface

BDNIDDI

SECURIT



ORDER CODES

BGSM-A/12	12Vdc GSM dialler and interface
BGSM-A/230	GSM dialler and interface powered from mains (230 Vac)

FEATURES

DIALLER

- 2 alarm channels with priority
- management • 7 programmable telephone numbers for each channel
- 15 digits available for each telephone number: allows pauses of 1 or 5 seconds
- Possibility to record either one, two or three messages: 1 message of 32 seconds max. common to both channels; 1 message of 16 seconds max. for each channel; 1 message of 16 seconds max. common to both
- channels and 1 message of 8 seconds max. for each channel
- or 80 seconds
- Possibility to stop alarms via keypad by
- means of a PIN code • Programmable installer code for access
- to programming
- Possibility to program alarm call activation by means of positive drop or negative command

- Storage of the last 255 calls • Remote listen-in and interrupt alarm-
- callcycle by entering user code on telephone keypad
- Protection against accidental polarity inversion of the battery

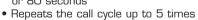
TELEPHONE LINE

- Protection against overvoltage
- Open-collector output for telephone line

- Bypassable dial-tone check • Electronic telephone-line interface

- cut or fault signalling
- Tone or pulse dialling

• Repeats alarm message for 20, 40, 60



• Terminal for call cycle interruption

programming and communicating systems





• Bypassable "Answer check"

INTERFACE

- Digital message recording/playback
- Built-in loudspeaker for recorded message playback
- Single digit LED display
- Alphanumeric keypad for operating control
- Solid-state memory for programmed data storage

BOX

- Tamper protection
- Compartment for 12 V 1.2 Ah battery (not supplied)
- Power supply: 13.8 Vdc ±10%
- Dimensions (wxhxd): 132x220x62 mm
- Weight (without battery): 1.2 Kg

ORDER CODES

B-TEL 99

Dual channels telephone dialler





GT-COM

GT-COM is the Bentel Security solution for the increasing request of an all-application device that manages digital communications to central stations.

In fact, the GT-COM solves the problem of data transfer from sites that are not provided with control panel communicators.

This flexible device is perfect for trouble signalling in lifts, water flow systems and storage tanks, etc. The GT-COM is also the most cost-effective time-saving way of upgrading systems that require the communicator function. The GT-COM has 8 input channels that manage 8 different event types and relative resets. It supports the most widely used reporting protocols and manages up to 8 telephone numbers. It can be programmed via the GTCOM software application (runs under Windows 3.1 or higher).

The software application, with graphic interface, provides a fast user friendly way of programming the device, via an RS232 port. The programmed installation data can be saved in your database, for retrieval and reuse.



B-NET < NEW

B-NET is an expander board for KYO 100, KYO 300 control panels. B-NET will allow the connection of control panels to the LAN to control them from a remote location.

Using the B-NET, you can communicate alarm signals and all control panel events (SIA on B-NET protocol) on LAN and communicate the same signals to a programmable e-mail address. B-NET can be connected to LAN programming a static IP address or using DHCP.

Using the Bentel Security Suite software, you can do the same operations either on the Net or via serial port. With a public IP address you can do teleservice and telemonitoring from any region in the world on internet.

INTERNET COMMUNICATOR (KYO 100/300)

- LAN/WAN Internet protocol
- 128Bit encryption (secure)Version 1.30 of Kyo100 and 300
- B-Net connect to panel via RS232
- Up/download and event transmission
- Allarm reception via e-mail or to system III receiver
- 4 stand alone inputs, expandable to 12
- 2 programmable outputs

FEATURES

- Nominal voltage 12Vdc
- Alarm current 250 mA
- Min. (max) supply voltage 10 Vdc / max 13,8 Vdc
- Temperature range 0°/+49 C°
- Dimensions (wxhxd): 150x339x108 mm
- Weight 1.5 Kg

FEATURES

- 8 independent channels
- Programmable trigger signal edge
- 8 programmable telephone numbers with individual account code
- Supports the most widely used protocols: 10, 14, 20, 40 Bps, Contact ID
- 2 distinct signals for power trouble
- Auto-test call

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- First call delay
- Fully programmable from PC via RS232 serial-interface
- PSTN Line Interface
- Software application (runs under Windows)
- Dimensions (wxhxd): 91x15x85 mm

ORDER CODES



programming and communicating systems



ORDER CODES

B-NET

Expander board for KYO 100 and KYO 300 control panel





B-MOD

B-MOD is a high quality Modem of maximum reliability, intended for use with Bentel Security products.

The B-Mod provides teleservice management (via the management software application) on all Bentel Security control panels. B-Mod can operate on two telephone lines: priority and backup. In the event of trouble on the priority line the B-Mod will switch automatically to the backup line. B-Mod is compatible with Bentel Security protocols (150 baud, 1200 baud). The streamlined design of the B-Mod allows installation in all

The streamlined design of the B-Mod allows installation in all ambients.

B-MOD/RX modem is dedicated to Telemonitoring (control of remote security system).

It supports 10 and 14 bps and Contac ID protocols, and houses a 12 Vdc 1.2 Ah max. battery (not supplied) for backup power during blackout. The B-Mod/RX event memory holds 500 events, and allows all events to be recorded during communication problems with the modem management software (for example, during blackout or when the program is not running, or is busy communicating with another modem). The B-Mod/RX Central Station can analyse event data transmitted by remote control panels with digital communicators. Data sent by control panels to the B-Mod/RX modem will be transmitted to the computer. The WinBCS software (runs under Windows) displays all the

customer's data, in particular the customer's details, maps and icons that will allow the operator to understand in real-time exactly what is happening on the customer's premises.

The Modem has 8 programmable open-collector outputs that can be activated by a set of events. The NC2/VOX board (accessory item) can manage 8 Voice calls and 8 telephone numbers. Each voice message can be associated with one or more events. The messages will be sent in response to incoming events, or when the operator fails to acknowledge the transmission.



The Bentel Security Suite software integrated environment has been developed to meet requests of local and remote management of burglar control panels, telephone diallers and access control systems. It will allow you to program, control and enhance the performance of any Bentel Security system that is equipped with a local or remote computer Interface.

The customer database and print facilities will keep you in touch and informed. It is surely the best way to achieve the maximum from your Bentel Security installation.



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BIS is Bentel's most important and powerful "Systems Integrator Kit". It provides a "DLL" for supervision system integrations, and video Map software integrations. BIS allows the installer to expand the initial capacity of all Bentel Security systems. Now, all old and new Bentel Security installations can be integrated with higher supervision systems. In this way, with appropriate software Bentel Security control panels can be connected to a PC for system supervision through video maps. BIS takes Bentel Security products into the powerful world of communications.







ORDER CODES

B-MOD	Hight quality modem
B-MOD/RX	Hight quality modem dedicated for telemonitoring
SECURITY SUITE	Enviroment software integrated fo Bentel control panel
BIS	System Integrator Kit

BENTEL SECURITY FOR A SAFER WORLD









sirens

Self powerd siren Lady is a perfect mix between an innovative design and a state of the art technology.

All the functions are managed by a microprocessor that guarantees operating precision. Lady has three inputs for the different sounds available: this feature extends the use of the siren considerably. It is possible to select a siren sound, this can be useful both for distinguish one installation from the other, or to assign different sounds to different types of alarm or places. The flasher is managed separately by a specific input, when sound emission is not required. Compatibility with all alarm control panels is guaranteed by the programmability of the polarity of the inputs, and alarm signal polarity.

In addition to the already high standard of the Bentel Security sirens, LADY is protected against foam injection tamper, the latter is particularly effective due to the use of a dual detector.

The battery is monitored continuously by the siren microprocessor, which checks the battery level and efficiency, and signals the status on the respective terminal. If the battery is low, the flasher will be inhibited automatically, and the remaining power will be kept for sound emission.

The materials used for LADY (polycarbonate box with tropicalized metal interior) guarantee an almost unlimited resistance to the most adverse weather conditions.



FEATURES

- Strong polycarbonate box, resistant to the most adverse weather conditions
- Tropicalized-steel inner cover
- 3 inputs for alarm signalling on siren sounder and flasher
- 1 input for alarm signalling on flasher
- Standard inputs for all types of control panels
- Modulated frequency sound emission, with the possibility to assign different sounds to the alarm inputs
- High performance magnetodynamic exponential horn
- Protected against tamper, snatch, damage to the flasher and wire cutting
- Foam injection tamper device
- Programmable maximum alarm-time
- Test circuit for battery level and efficiency, with flasher cut-out on low battery
- Drill pattern for easy installation
- Complies with CEI 79-2/2nd Ed. 1993
- Power supply: internal battery 12 Vdc, 7 Ah
- Alarm current: 1.4 A (max. 2.8 A)
- Sound level: 103 dBA (3 mt.)
- Fundamental frequency: 1475 Hz
- Temperature range: -25 ÷ +55 °C
- Dimensions (wxhxd): 208x252x98 mm
- Weight (without battery): 2.5 Kg

ACCESSORIES

LEDOPT

LED option board for sirens for auxiliary signal of the system's status.





LADY

GENERAL	FEATURE	S		
MODELS	LADY-FPI	LADY-FCRI	LADY-FS	LADY-FCR
Self-powered microprocessor controlled horn with strobe/flasher for outdoor applications	•	•	٠	•
Strong weatheproof polycarbonate moulding	•	•	•	•
Tropicalized-steel innerplate	•	•	•	•
2 Audible and visual signal inputs	•	•	•	•
1 Audible signal inputs	•	•	•	•
1 Audible signal inputs	•	•	•	•
Modulated frequency sound emission with sound options	•	•	•	•
High output magnetodynamic exponential horn with test circuit	•	•	•	•
Protected against tamper, snatch, flasher bulb damage and wire cutting	•	•	•	•
Antifoam device	•	•	•	•
Programmable maximun alarm time	•	•	•	•
Battery test circuit with flasher shutdown under low battery or trouble conditions	•	•	•	•
Drilling pattern for easy installation	•	•	•	•
Tested and approved to CEI 79-2/2nd Ed.1993; Ab2000, performance grade 2	•	•	•	•
Battery location (12Vdc, 2Ah)	•	•	•	•
Flasher	•	•		
Strobo			•	•
External ivory white polycarbonate moulding	•		•	
External polycarbonate in Chrome finish moulding		•		•

ORDER CODES

LADY-FPI	Self-powered siren with antifoam device
LADY-FCRI	Self-powered siren with antifoam device in Chrome finish moulding
LADY-FS	Self-powered siren with antifoam device with strobo
LADY-FCRS	Self-powered siren with antifoam device with strobo in Chrome finish moulding

sirens







sirens

CALL

The Call self-powered siren is a landmark in Bentel Security range of products.

Made in polycarbonate and internally reinforced in metal, it guarantees a high level of security and is totally weatherproof. The Call is protected against tamper, snatch and wire cutting, and is equipped with a flasher cutout circuit, that is activated

automatically by low battery conditions. The Call siren provides 2 trigger inputs for the sounder and flasher and a further tone option. This is useful to differentiate control systems installed in the same area. The tone option can also be used to differentiate alarm types (burglary, flooding, gas, etc.) and places (office, warehouse, garage, etc.).

The maximum alarm time of the call can be programmed to match customer/site requirements.

Call-F versions garantee a further protection against foam injection and are equipped with 1 visual alarm and 1 audio allarm to provide a great flexibility of use.



CALL

	GEI		FEATUR	ES				
MODELS	CALL-PI	CALL-S	CALL-CRI	CALL-CR/S	CALL-FPI	CALL-FS	CALL-FCR	CALL-FCRS
Self-powered microprocessor controlled horn with strobe/flasher for outdoor applications	•	•	•	•	•	•	•	•
Strong weatherproof polycarbonate moulding	•	•	•	•	•	•	•	•
Tropicalized-steel innerplate	•	•	•	•	•	•	•	•
2 Audible and visual signal Inputs	•	•	•	•	•	•	•	•
1 Audible signal input					•	•	•	•
1 Visual signal input					•	•	•	•
Modulated frequency sound emission with sound options	•	•	•	•	•	•	•	•
High output magnetodynamic exponential horn with test circuit	•	•	•	•	•	•	•	•
Protected against tamper, snatch, flasher bulb damage and wire cutting	•	•	•	•	•	•	•	•
Antifoam device					•	•	•	•
Programmable maximum alarm time	•	•	•	•	•	•	•	•
Battery test circuit with flasher shutdown under low battery or battery trouble conditions	•	•	•	•	•	•	•	•
Drilling pattern for easy installation	•	•	•	•	•	•	•	•
Tested and approved to CEI 79-2/2nd Ed. 1993; Ab2000, Permormance grade II	•	•	•	•	•	•	•	•
Battery location (12Vdc, 2 Ah)	•	•	•	•	•	•	•	•
Flasher	•		•		•		•	
Strobo		•		•		•		•
External ivory white polycarbonate moulding	•	•			•	•		
External polycarbonate in Chrome finish moulding			•	•			•	•

FEATURES

- Self-powered siren with flasher
- Attractive design

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- Strong polycarbonate box, resistant to the most adverse weather conditions
- Tropicalized-metal innerplate
- 2 imputs for sounder and flasher, 1 of wich compatible with wathever control panel
- Modulated frequency sound emission with the possibility to assign different sounds to the allarm imput
- Protected against wire cutting, tamper, snatch and flasher damage
- Programmable maximum alarm time
- Battery test circuit with flasher cut out activated by low battery conditions
- Sound level at 3 m. 103 dB(A)
- Complies with CEI 79-2/2nd Ed. 1993 performance grade II
- Protection class IP34
- Dimensions (wxhxd): 208x252x98 mm
- Weight (without battery): 2,5 Kg

	AC	CE	SS	OR	IES
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EDOPT

LED option board for sirens for auxiliary signal of the system's status.



ORDER CODES

CALL-PI	Self-powered siren
CALL/S	Self-powered siren with strobo
CALL-CRI	Self-powered siren in Chrome finish moulding
CALL-CR/S	Self-powered siren with strobo in Chrome finish moulding
CALL-FPI	Self-powered with antifoam device
CALL-FCRI	Self-powered with antifoam device in Chrome finish moulding
CALL-FS	Self-powered siren with antifoam device with strobo
CALL-FCRS	Self-powered siren with antifoam device

with strobo in Chrome finish moulding

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sirens

WAVE

This high performance internal siren has been especially designed for sound and visual warning in the event of intrusion.

Four versions are available: with or without flash; with or without back-up battery (self-powered). The visual signals emitted by the strobe's high intensity Xenon tube can be seen from all angles, thus providing maximum visual coverage. The smart, low-profile siren blends with all environments, making

it ideal for hotels, hospitals, cinemas, offices and households.





FEATURES

- Operating voltage 12 Vdc
- Strobe current draw (mean value) 135 mA
- Horn current draw (mean value) 90 mA
- Sound output volume 104 dBA ±3 dB @ 1 m
- Candela 60 cd
- Size (wxhxd): 126x132x53 mm
- Protection class IP31
- Operating temperature 5 ÷ 40 °C
- Weight: 245 gr

BENTEL SECURITY FOR A SAFER WORLD

ACCESSORIES

WAVE/BATT Spare battery

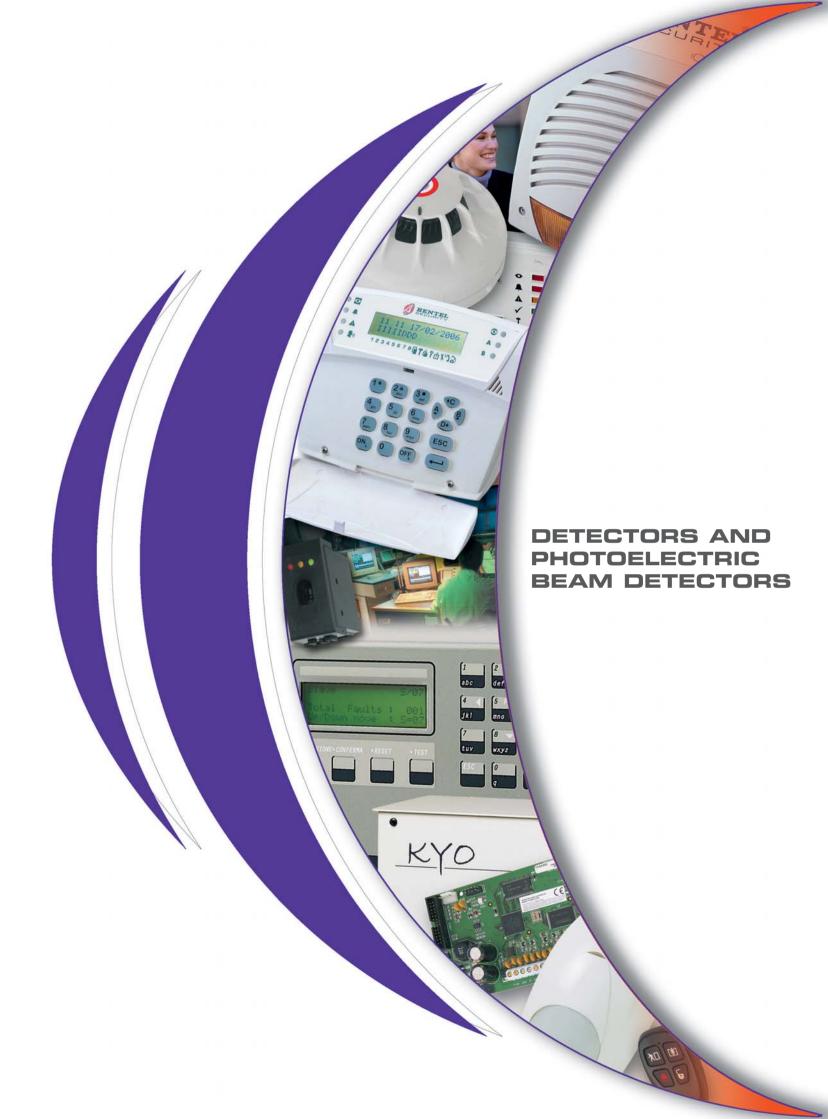


ORDER CODES

WAVE/W	Internal siren
WAVE/WB	Self-powered internal siren
WAVE/WSB	Self-powered internal siren with strobo
WAVE/WS	Internal siren with strobo









DT800

The DT800 is a dual technology device that combines a sensitive microwave detector and a reliable infrared detector in a smart container. The combination of these two technologies allows the DT800 to handle those situations that normally put single technology detectors into a critical position.

NEW

The use of a microprocessor for the digital treatment of alarm signals also implements functions such as the functioning mode AND or AND/OR, the possibility of programming the number of pulses required to generate the alarm and the anti-masking that generates a tamper when one of the two detectors is masked. The DT800 can be wall, corner or side mounted, and, thanks to an optional base, also on surface wiring.

The DT800 is available with different combinations of the following characteristics, so as to be sweetable for any particular type of installation.

LOOK DOWN

The Look Down extends the coverage of the DT800 up to the wall on which it is mounted, preventing an intruder who is sliding along the wall from eluding surveillance.

ANTI-MASKING

The anti-masking generates a tamper when one of the two detectors has become inefficient, therefore providing protection when the security system is disarmed.

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MICROPHONE

It is possible to hear sounds, via telephone, in the environment where the DT800 is installed, with predisposed control panels, by means of integrated microphone, so as to verify the signal of an alarm.

AND/OR FUNCTIONING MODE

The AND/OR functioning mode allows the DT800 to generate an alarm even when one of its detectors generates twice as many pulses with respect to those programmed for the functioning mode AND, so as to resolve situations where one of the two detectors is not able to signal the intrusion.

PET IMMUNITY

Pet immunity allows the DT800 to be used in areas frequented by our four-legged friends without limiting their freedom of movement when the security system is armed.

All the detectors of the DT800 series are available in two functioning frequencies, so as to install two detectors in the same room, without them interfering with each other



FEATURES

- X-band microwave radar
- Two radar frequency options: 10.525 MHz
 - 10.515 MHz
- Dual element PIR
- 12mt range
- 80 degree horizontal coverage
- NC 100mA solid state output
- Tamper
- 10-15Vdc operation
- 15mA (25mA max)
- Three alarm/walk test LED's (visible from front)
- Optional adjustable swivel bracket
- Base with conduct groove
- Optional integrated microphone
- Alarm memory
- Remote radar switch OFF
- Remote walk-test LED's switch OFF
- Adjustable for
- Microphone sensitivity
- PIR range
- Microwave range
- PET immunity

AVAILABLE IN THE FOLLOWING VERSIONS:

CODES	LOOK-DOWN	ANTI-MASKING	INTEGRATED MICROPHONE	AND/OR	PET IMMUNITY
DT800-B	•			•	
DT800-M	•		•	•	
DT800-K	•	•		•	
DT800-PM			•		•

ACCESSORIES

BH-U1 Wall and ceiling mounting swivel, adjustable in horizontal and vertical.





detectors

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ORDER CODES

DT800-B	Dual technology motion detector
DT800-M	Dual technology motion detector with integrated microphone
DT800-K	Dual technology motion detector with antimaskyng
DT800-PM	Dual technology motion detector with "Pet immunity" function







LB612 - LB812

Dual technology sensor (passive infrared and microwave) neat, compact and easy to install.

Alarm analysis by means of microprocessor and programmable pulse-counter. AND function mode to optimize the immunity to interference, and AND/OR function mode to protect against blinding of one of the sensors. Alarm memory and separate sensibility adjustment for both sensors. Wall brackets for corner and angled mounting, suits all possible positioning needs. Screw on front cover.

The economical LB812 model is not equipped with a microprocessor, and is provided with the AND function only.



MC712

The MC712 is a combined mirror optic PIR and glassbreak or rollerblind detector interface especially designed for unfriendly applications.

Highly reflective precise mirror optics transfer a remarkable level of IR energy to the sensing components to deliver unbeatable detection performance with exceptionally low false alarm rate. The microprocessor architecture allows direct attachment of a alassbreak or rollerblind detector to provide single placement IR and shockwave detection.

Selectable alarm threshold for consistent performance and reliability in hostile environments. Accurate look-down cover. night mode (for rollerblind only). Local and remote control of visual alarm signalling on the walk-test LED. Differentiated alarm memory function provides local visual indication of alarm-cause on the walk-test LED. Elegant low profile housing.

FEATURES

- LB 612: approvation PP.TT. n.ISPT/2/2/96/006 LB 812: approvation PP.TT. n.ISPT/2/2/96/007
- Infrared view by means of 24 beams on 4 levels
- Microwave view angle: 90°
- Range: 12 mt

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- Microwave stripline unit working in X band
- Available with microwave frequency at 9.9 GHz or 10.5 GHz
- Voltage: 10 ÷ 15 Vdc
- Supply current: 20 mA
- Operating temperature: -10 ÷ +50 °C
- Overall size (wxhxd): 60x105x44 mm
- Weight: 200 gr

FEATURES

- Mirror optic PIR
- Glassbreak or rollerblind detector interface (only MC712-S model)
- Microprocessor technology
- Multilevel digital signal processing for accurate detection of human IR over a broad range of temperatures
- Look-down cover
- Night mode
- Differentiated alarm memory
- Selectable alarm threshold
- Easy installation

ACCESSORIES

horizontal and vertical.

BR-01

- Operating voltage 10 ÷ 15 Vdc
- Protection class: IP50
- Size (wxhxd): 55x100x40 mm

ORDER CODES

LB812DN

LB612DN Dual technology infrared and microwave

sensor, 24 beams on 4 levels AND/OR function

Dual technology infrared and microwave sensor, 24 beams on 4 levels AND function



Wall and ceiling mounting swivel, adjustable

detectors





ORDER CODES

MC712

MC712-S

Coverage: 12 m Horizontal cover: 80° 7 curtains Weight: 50 gr

Coverage: 12 m Horizontal cover: 80° 7 curtains Glassbreak or rollerblind detector interface Weight: 55 gr





The MC712-E is an up-to-date mirror optic PIR with look-down cover.

Highly reflective precise mirror optics transfer a remarkable level of IR energy to the sensing components to deliver unbeatabledetection performance with exceptionally low false alarm rate.

Selectable alarm threshold for consistent performance an dreliability in hostile environments. Accurate look-down cover. Discreet low profile housing.



VISUS99

Passive infrared motion detector with look-down cover.

This small well-designed detector may be wall mounted (with or without the bracket), corner mounted or mounted on a swivel which is easily adjustable to offer the required cover. Available with four different types of lenses: volumetric, corridor, long range and curtain.

Dual pyroelectric sensor assures reliability even in difficult environments.

Manual adjustment of the alarm threshold, and thermal compensation for operating uniformity at different temperatures. The built-in microphone provides listen-in function (only "MIC" model). Screw-on front cover.

Complies with CEI standard CEI 79-2 2nd Ed. 1993 level 1.

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- Mirror optic PIR
- Look-down cover
- Night mode
- Selectable alarm threshold
- Easy installation
- Operating voltage 10 ÷ 15 Vdc

FEATURES

- Protection class: IP50
- Size (wxhxd): 55x100x40 mm

FEATURES

- Detection by means of dual pyroelectric sensor immune to temperature changes
- High immunity against false alarms and electro-magnetic fields
- Look-down cover
- Manual adjustment of sensibility and thermal compensation of the alarm threshold, for operating uniformity in environments with notable temperature changes
- Preamplified listen-in (only "MIC" model)
- Easy installation
- Operating voltage: 10 ÷ 15 Vdc
- Standby current: 12 mA
- Case protection grading: IP50
- Dimensions (wxhxd): 55x91x47 mm
- Weight: 72 gr

ACCESSORIES

BR-01 Wall and ceiling mounting swivel, adjustable in horizontal and vertical.



ORDER CODES

МС712-Е

Coverage: 12 m Horizontal cover: 80° 7 curtains Weight: 50 gr

ACCESSORIES

VISUS-J Wall mounting swivel



detectors



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ORDER CODES	
VISUS99	Range: 12 mt Cover horiz.: 90° 24 beams on 4 levels
VISUS99-C	Range: 20 mt Cover horiz.: 8° 8 beams on 7 levels
VISUS99-L	Range: 40 mt Cover horiz.: 90° 11 beams on 5 levels
VISUS99-T	Range: 12 mt Cover horiz.: 8° 11 beams on 11 levels
VISUS99-MIC	Range: 12 mt Cover horiz.: 90° 24 beams on 4 levels, with built-in microphone
VISUS99-C-MIC	Range: 20 mt Cover horiz.: 8° 8 beams on 7 levels, with built-in microphone
VISUS99-L-MIC	Range: 40 mt Cover horiz.: 90° 11 beams on 5 levels, with built-in microphone
VISUS99-T-MIC	Range: 12 mt Cover horiz.: 8° 11 beams on 11 levels, with built-in microphone





EXON

Exon is a simple infrared suitable for use in domestic and commercial buildings.

This low profile design detector is easily mounted to walls, ceilings and corners, and can also be fitted to a swivel mount (accessory item) for easy alignment. Available in volumetric, corridor, long range and curtain lens versions. Dual pyroelectric sensor ensures reliability in difficult environments. Equipped with fine trimmer for alarm threshold and thermal compensation adjustments for operating uniformity at different temperatures. Exon has 3 LED's: 1 to show alarm condition and the other to provide local visual indication of environmental noise (EMI and other).



FEATURES

- Detection by dual pyroelectric sensor, immune to temperature changes
- High EMI and noise immunity
- 3 status LED's: 2 monitor, 1 alarm
- Sensitivity setting
- Alarm threshold compensation for effective immunity to heat excursion
- Trouble free installation
- Optional swivel mount available
- Operating voltage: 10 ÷ 15 Vdc
- Standby current: 10 mA
- Case protection grading: IP50
- Dimensions (wxhxd): 68x96x44 mm
- Weight: 70 gr

AC	CES	RIE	S

EX-S Wall-mounting swivel



ORDER CODES	
EXON	Infrared sensor, 4 beams on 4 levels
EXON-C	Infrared sensor, 8 beams on 7 levels
EXON-L	Infrared sensor, 11 beams on 5 levels
EXON-T	Infrared sensor, 11 beams on 11 levels

MB2012

Valid technology for a great reliability.

MB2012 utilizes precision designed mirror optics with advanced microprocessor control to deliver the ultimate in IR motion detection and false alarm immunity. It comes with wall, corner and swivel-mount brackets for maximum flexibility in detector location. The frontplace is secured by a screw.

FEATURES

- Highly reflective, precise mirror optics
- Digital signal analysis for consistent detection throughout the coverage pattern
- Multilevel signal processing for accurate detection of human IR over a broad range of temperatures
- Sensitivity adjustment to configure the detector for hostile environments
- Swivel bracket for maximum flexibility in detector location
- Operating voltage 9.5 ÷ 14 Vdc
- Standby current: 15 mA
- Protection class: IP50
- Size (wxhxd): 60x110x40 mm
- Weight: 100 gr

IR360

Designed for application which require high sensitivity and cover, such as rooms with large amounts of viewrestricting furniture.

The IRM360 utilizes a fresnell lens for 360° cover to deliver the maximum in IR motion detection. Provides excellent RF immunity and guarantees years of trouble-free operation.

FEATURES

- Digital signal analysis for consistent detection throughout the coverage pattern
- Temperature compensation for improved performance at critical temperatures
- Multilevel signal processing for accurate detection of human IR over a broad range of temperatures
- Sensitivity adjustement to configure the detector for normal or hostile enviroments
- Excellent RF immunity
- Exceptional white light immunity
- Operating voltage 9,5 ÷ 14 Vdc
- Standby current: 15 mA
- Protection Class: IP50
- Size (wxhxd): 115x115x25 mm
- Weight: 91 gr

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detectors



ORDER CODES

MB2012

Mirror ontic PIR





ORDER CODES

IR360

360° optic PIR







photoelectric beam detectors

GB08

Designed to detect the sounds produced by the shattering of framed glass.

High-performance microphone delivers exceptional sound detection. Dynamic signal processing provides accurate detection of plate, laminated, wired and tempered glass types at up to 8 metres. The GBO8 can be wall or ceiling-mounted.

FEATURES

- High-performance microphone
- Sensitivity adjustement
- Digital signal analysis provides exceptional false alarm immunity
- Excellent RF immunity
- Accurate detection of framed plate, laminated, wired and tempered glass types
- Easy installation
- Operating voltage 9.5 ÷ 14 Vdc
- Standby current: 15 mA
- Protection class: IP50
- Size (wxhxd): 89x64x20 mm
- Weight: 56 gr

RAY

Bentel Security Ray photoelectric beam detector is the perfect combination of elegant design and state-of-the-art electronics.

Rugged housing defeats distortion to deliver consistent performance in extreme temperature conditions. Low profile design (175 x 70 mm) allows this unobstructive detector to be at home in indoor and outdoor environments.

RAY60 provides 60 mt coverage; RAY100 provides 100 mt coverage. Enhanced installation flexibility combined with Easy beam alignment guarantee trouble-free installation.

Requires no synchronism wiring, as each beam is recognized by a differentiated optical code.

Microprocessor controlled for unmatched detection performance with exceptionally low false alarm rate.

Durable resin housing and spareness of anchor knockouts extend immunity to strong sunlight.

AFT-100

Glassbreak Simulator

- Generates plate or tempered glass sound samples
- 3 in full-range speaker accurately reproduces the full range of frequencies generated by shattering glass
- Single or continuous sound operation.



Glassbreak Simulator

Glassbreak detector

FEATURES

- Photoelectric beam detector
- Digital CPU for greater stability
- Selectable 4 channels beam frequencies
- Signal LED for system's status
- Lighting and surge protection
- Alarm LED
- Dry contact relay output
- Tamper output
- Beam adjustment: horizontal 180° (±90°), vertical: 20° (±10°)
- Supply voltage: 10 ÷ 18 V
- Current: receiver < 43 mA; transmitter < 43 mA
- Weight: receiver 348 gr; transmitter 335 gr
- IP rating 54

ORDER CODES

AFT-100

60

GB08

ORDER CODES



61



ORDER CODES

RAY60

RAY100

60 mt coverage photoelectric beam detector

100 mt coverage photoelectric beam detector













BXM12

Power supply.

FEATURES

- Microprocessor controlled switching power supply
- Bus-in and bus-out totally uncoupled (galvanically isolated and regenerated, only in "-B" versions)
- Input voltage: 230 Vac ±10% 50/60 Hz
- Stability: ±1%
- Continuous monitoring of switching power supply with cut out in the event of fault or irregularity
- Continuous monitoring of the battery with cut out in the event of fault or irregularity
- Test for battery presence, level and the efficiency
- 3 independent outputs protected by thermal fuse
- Tamper and snatch switches

ARTICLE

- 2 Open collector outputs for failures signalling (only in "-U" versions)
- Battery compartment: one battery 12 Vdc 17 Ah
- Compatible with thermal probe KST



BAQ

Switching power supply battery-chargers of BAQ series are protected against short-circuit and overload, and can be fitted with a thermal probe that will allow the device to detect temperature rises, and drop the output voltage accordingly to avoid battery overheat.

FEATURES

- Power supplies battery chargers
- Small dimension
- In 230 Vac ±10%, 50/60Hz
- Complies with EN60950
- Insulation class I
- Stability > 1% with full load
- Protected against short-circuit and overload
- Compatible with thermal probe KST

ACCESSORIES

BX

Suitable for power supplies: BAQ35T12, BAQ6OT12, BA2C. Metallic box (wxhxd): 196x330x95 mm



BXM

Suitable for power supplies: BAQ35T12, BAQ6OT12, BA2C. Metallic box (wxhxd): 241x349x93 mm



BA2C

Linear power supply battery charger.

FEATURES

- Input voltage: 230 Vac ±10% 50/60 Hz
- Output voltage: 13.8 Vdc
- Max current 2 A
- Complies with EN60950
- Insulation class II
- Stability > 1% with full load
- Overload protection
- Short-circuit protection
- Dimensions (wxhxd): 195x85x80 mm
- Weight: 1.4 Kg

BXM12/30-B	13,8	3 max.	240 x 348 x 97 mm	2,8 Kg	
BXM12/50-B	13,8	5 max.	240 x 348 x 97 mm	2,9 Kg	@ (A
BXM12/30-U	13,8	3 max.	240 x 348 x 97 mm	2,8 Kg	
BXM12/50-U	13,8	5 max.	240 x 348 x 97 mm	2,9 Kg	@ (A

ORDER CODES	
BXM12/30-B	Switching power supplies 13,8V 3A with bus-in bus-out
BXM12/50-B	Switching power supplies 13,8V 5A with bus-in bus-out
BXM12/30-U	Switching power supplies 13,8V 3A with 2 open collector outputs for failures signalling
BXM12/50-U	Switching power supplies 13,8V 5A with 2 open collector outputs for failures signalling
KST	Thermal probe kit



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OUTPUT (Vcc) CURRENT (A) DIMENSIONS (wxhxd) WEIGHT (without batt.)

power supplies



ORDER CODES



BAQ15T12

Switching power supply battery charger 1,5A 13,8V



BAQ35T12

Switching power supply battery charger 3A 13,8V

Switching power supply battery charger 5A 13,8V









ORDER CODES

BA2C

Linear power supply battery charger 2A 13.8V





batteries

BATTERIES

MAINTENANCE FREE

No need to check specific gravity or add water.

SEALED CONSTRUCTION

Ensures that no electrolyte leakage can occur from terminals or cases.

LONG CYCLE LIFE

Over 1,000 discharge/recharge cycles.

LONG SHELF LIFE

Up to one year at an ambient temperature of 68° (20°C).

HEAVY DUTY GRIDS

Constructed of lead-calcium alloy to enhance performance and service life in both cyclic and floating applications, even in deep discharge conditions.

OPERATING TEMPERATURE RANGE

Broad operating temperature range of 5° to 122°F (-15° to 50°C) permits flexible system designs and battery locations.

POSITION FLEXIBILITY AND LEAKAGE FREE

Sealed construction and use of absorptive mat separetors permits battery operation in any

position without loss of electrolyte or service life.

66

LONG FLOAT LIFE

3 to 5 years float life under trickle charge.

HIGH RECOVERY CAPABILITY

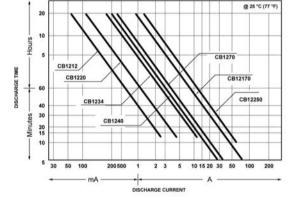
Even after deep discharge.

LOW GAS GENERATION

Battery design effectively controls generation of gas and allows recombination within the battery of 99% of gas generated during normal use.

LOW PRESSURE VENTING SYSTEM

Ensures that there is no excessive buildup of gas in the battery. Operating at 7-10 psi (48-69 kPa), the system automatically releases excess gas if pressure rises above normal. Resealing is automatic once pressure has returned to normal.



BENTEL

led Rechargeable Batt

17-12B (12V 17.0AH)

BENTEL

d Rechargeable B 7-12B (12V 7.0AH

ORDER CODES Width (mm) Height (mm) Depth (mm) Nominal Voltage (V) Rated Capacity (Ah) Max. Charging Current (A) Total Height (mm) Weight (Kq) **CB1212** 12 1,2 0,36 97 43 59 0,60 52 CB1220 12 2,0 0,60 178 60 35 67 0,96 **CB1234** 12 3,4 1,02 134 60 67 67 1,37 **CB1240** 12 4.0 1,20 90 101 70 107 1,73 CB1270 2,10 151 95 101 12 7,0 65 2,66 CB12170 17,0 181 12 5,10 167 76 167 6,06 CB12250 12 25,0 7,50 166 125 175 125 8,80

BENTEL

ed Rechargeable Ba 25-12B (12V 25.0AH





BENTEL SECURITY FOR A SAFER WORLD

www.bentelsecurity.com



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