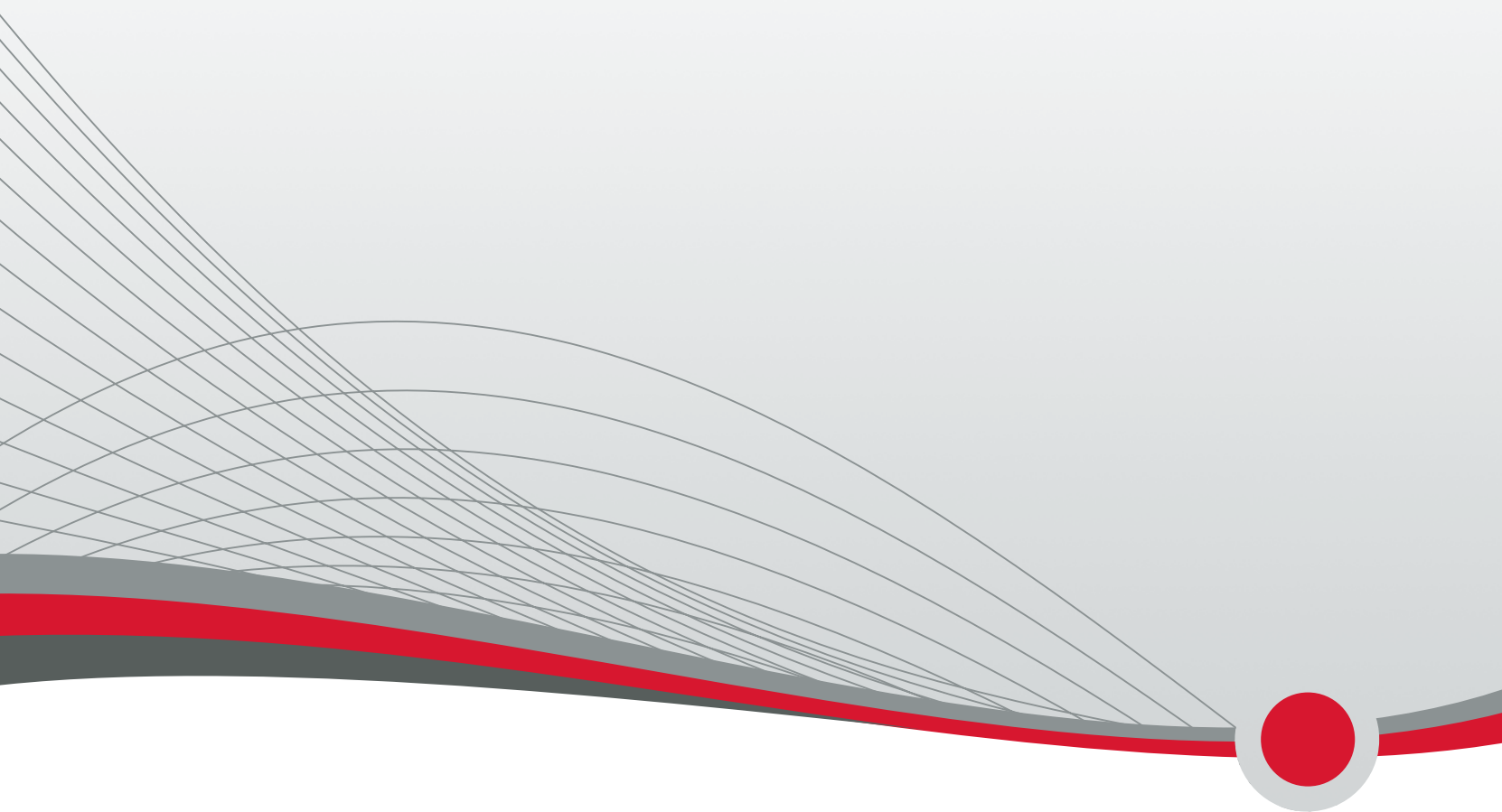


Product Catalogue

2007-2008



RISCO
G R O U P

Creating Security Solutions.
With Care.

r i s c o g r o u p . c o m



Contents

Company Profile	4
Integration Software Solutions	6
SynopSYS	8
Intrusion Solutions	12
Systems	
ProSYS	14
AGM	18
ACM	20
IP/GSM Receiver	21
Pro-24	22
Wireless	
WisDom	24
Wireless Accessories	26
Detectors & Sounders	
RISCO Group's unique Detection Technologies	30
Outdoor	
WatchOUT	32
Perimeter	
ViTRON	36
ShockTec	38
Indoor	
WatchIN	40
Industrial LuNAR	42
LuNAR	44
iWISE	46
ZoDIAC	50
Sounders	
ProSound	52
Novagard 6	54
Access Control Solutions	56
MaxiTalk	58
MaxVisit	59
MaxPresence	60
Maxi.Net, MaxiImage, MaxiMoN, MaxiBGTK	61
KF-R7	62
KF-24/24 Input/Output	63
KF-Lift	64
Accessories	65



● Company Profile

RISCO Group creates a comprehensive line of advanced integrated security solutions for the global security market. From cutting-edge software to high-performance wired and wireless systems, the company delivers exceptionally flexible, end-to-end solutions to meet any project challenge - from the site to the alarm receiving center.

Exceeding industry standards and customer expectations, RISCO Group's four divisions - Integration, Intrusion, Access Control and CCTV - provide integrated security, building management, and IP/GSM Receiver software... sophisticated detector technologies... and IP-based security and access control systems - which can be found in commercial, industrial, institutional and residential installations around the world.



Creating Security Solutions

... with Care for Innovation

Deeply committed to providing innovative responses to the needs of its worldwide client base - RISCO Group develops powerful, dependable products based on the latest technologies and industry standards. Continuous innovation is cultivated through the company's culture of creativity - and ensured by the exceptional talent and broad multi-disciplinary mix of its R&D team - resulting in an ongoing flow of exciting new ideas, products and solutions. RISCO Group embraces the use of open architecture, enabling interoperability - as well as the easy integration of building automation and management systems with other security and safety products over IP networks. State-of-the-art encryption algorithms ensure the highest level of security. The adaptability built into every system and solution assures unlimited options for integrators, consultants, and specifiers, as well as security officers, building and facility managers - allowing the creation of the best possible design for every project - whatever the size, type, complexity, sensitivity, or location.

...with Care for Quality

The highest standards of quality and reliability are guaranteed by the company's ISO-9001-2000 certification in R&D, Engineering, Production, Sales and Service - as well as product approvals and conformance to security and environmental standards required by testing organizations in Europe, the USA and Asia. Beyond international standards, RISCO Group has developed its own strict internal procedures covering every aspect of product development - from initial concept through delivery. This attention to quality, coupled with a strong service orientation, is the basis for RISCO Group's long-standing reputation for reliability.

...with Care for Customers

The centrality of the customer is a cornerstone of the company's philosophy. RISCO Group's solutions are designed - first and foremost - with the needs of the customer in mind. Flexibility, ease of installation and use, and cost-effectiveness are built into every solution. RISCO Group's customers are served by an established and experienced network of branches, subsidiaries, distributors, and partners - backed by multi-lingual marketing and training materials - who sell and support RISCO Group's products in over 60 markets worldwide - including North and South America, Europe, Australia, Africa and the Far East. RISCO Group's well-trained professionals offer the global responsiveness to local needs - and the real-time customer support - to which RISCO Group is, and always has been, 100% committed.

Nurturing Long-Term Partnerships

RISCO Group's close relationships with its global partners ensure timely market input from the field, as well as a multitude of significant business opportunities that are made possible through successful collaboration on major projects around the world.

The company's proven technological capabilities, commitment to innovation, customer-centered designs, and comprehensive range of integrated, unfailingly dependable solutions... as well as its dedication to responsive, personalized customer support... have - for over 25 years - won the loyalty and respect of security professionals the world over.



Integration Software Solutions

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6

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With Care.

Integration

Software Solutions

The emergence of IP technology and open standard communication platforms has changed the way we are able to view and control traditional security and other building management systems.

In the past, security control systems and building systems were controlled as separate entities with no physical or logical connection. Today, managers are more aware of the increased efficiency available by converging all of the different systems that are required to run a large facility or distributed remote sites. Whether this is manifested in personnel cost-cutting or energy saving procedures, the financial savings are extensive.

Technological advances such as the Internet allow us to transfer and manage the most sensitive of data quicker and safer than ever thought possible. And, crucially, the proliferation of open platforms, such as UPnP™ (www.upnp.org), breaks down the barriers to the convergence of security and building systems by providing a single language with which all of the different kinds of systems can communicate with each other.

Now, with the aid of such technologies, RISCO Group is able to utilize their industry know-how to provide a basis on which facility managers are able to control all their systems from one single platform and attain true convergence for a more cost effective and centralized solution.



SynopSYS™

Integrated Security & Building Management

SynopSYS™ is a landmark development in integrated security and building management, providing simplified and completely integrated site management. Employing state-of-the-art technology, SynopSYS™ combines security, fire detection, video monitoring, access control, HVAC and other building automation systems into a single management system.



SynopSYS™ uses open architecture and industry leading standards for straightforward integration

SynopSYS™ provides the highest commercial level of IP security with state-of-the-art encryption

SynopSYS™ provides outstanding flexibility for customized project implementation

SynopSYS™ sets new standards for ease of integration and use

Main Features:

- HMI and display development tools including a library of security and building management icons and graphics.
- LAN/WAN capability with central database.
- SynopSYS is UPnP™ compliant enabling immediate communication with any UPnP™ compliant device.
- Open architecture - enables easy integration.
- Modular - enabling selection of required modules per project.

SynopSYS DVR

RISCO Group's DVR solutions put you in charge, protect your business investment and enhance your employees' security.

RISCO Group's DVR solutions are an integral module of the SynopSYS Security & Building Management Software, providing security officers and guards with an intuitive layout of all cameras on building maps. Double-click on any camera to open up and view live video.

In the SynopSYS DVR, video windows are configured to automatically pop-up upon predefined events such as unauthorized entry. Security breaches are thus identified, verified and resolved in a quick and simple manner.

The SynopSYS DVR captures critical video in response to alarms, alerting security officers and allowing authorized personnel to view recorded video or live situations from anywhere in the world. From a single camera to multi-camera distributed network applications, RISCO Group has the picture perfect solution for your organization.

Universal Plug & Play (UPnP™)

Universal Plug & Play (UPnP™) is an open networking standard, designed to enable universal plug and play connectivity between PCs and device controllers from different vendors over the IP networks.

UPnP™ is similar in concept to the Plug & Play standard for PCs that enables seamless connectivity with local devices, such as cameras and memory sticks. UPnP™, however, leverages TCP/IP and therefore extends to the entire network. This means that UPnP™ devices can be controlled anywhere in the building or in remote sites.

UPnP™ is already included as standard in the latest product lines of security industry leaders such as Pelco and Axis, and is fast being adopted as the open standard communication protocol of choice. The UPnP™ steering committee includes industry giants such as Intel, HP, Microsoft, Siemens, Philips and Echelon (LonMark), ensuring rapid adoption of the standard. RISCO Group is a member of the UPnP™ Forum. For more information on UPnP™ please visit www.upnp.org.





Headquarters

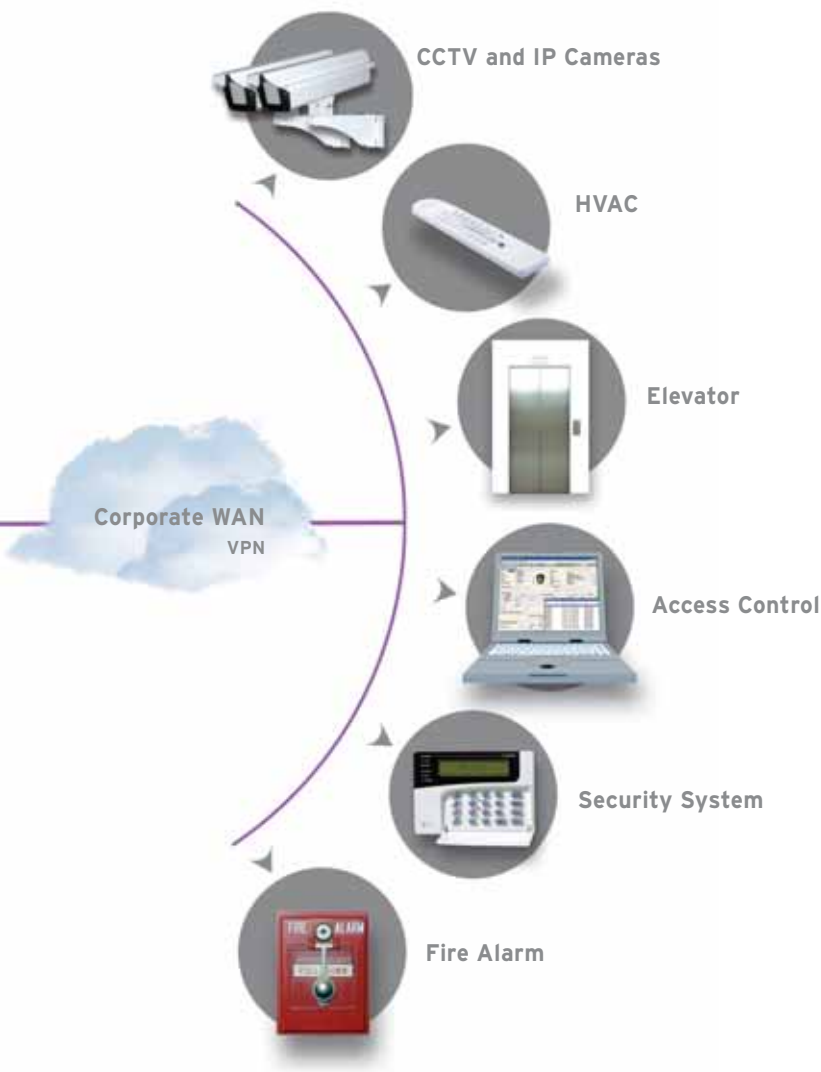


A Natural Integrator

Designed for effortless project implementation by system integrators, SynopSYS is a natural integrator. It's ideal for commercial and public buildings, complexes and distributed organizations. Networking capabilities provide control of both single and multi-site facilities via LAN or WAN and enable effective security surveillance and rapid response to events.

With SynopSYS in place, the entire building or distributed remote sites are monitored and controlled from one user interface on standard computers, reducing staff and increasing operational efficiency. The SynopSYS solution can significantly reduce building operation and maintenance costs, by automatically switching off lighting, heating and air-conditioning in unoccupied areas.

Remote Sites



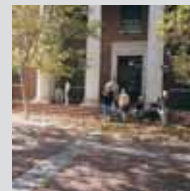
Financial institutions, headquarters and branch locations



Office buildings, museums, exhibition halls



Retail chains, shopping malls



University campuses



Industrial sites, production facilities



Organizations, institutions, distributed government sites



Intrusion Solutions



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12



Intrusion

Solutions

RISCO Group designs, develops and markets a comprehensive range of high performance intrusion solutions - including integrated systems, detectors and wireless systems - for commercial, industrial, institutional and residential applications around the world. RISCO Group's Intrusion Solutions are based on the well known Rokonet and Gardtec brands.

RISCO Group's unwavering dedication to excellence has earned it an international reputation for reliability. From initial concept through development and delivery, every aspect of every RISCO Group intrusion product is designed to assure the highest quality, dependability, ease of installation, ease-of-use, and cost effectiveness.

Systems

RISCO Group's comprehensive range of security systems ensures complete project flexibility, providing ideal solutions for every size and type of installation. These systems comply with all relevant international standards and offers the most advanced remote diagnostic tools and sophisticated network communications. RISCO Group's systems are used in banks, universities, retail chains, office and residential complexes and thousands of other locations around the world.

Wireless

RISCO Group's wireless systems and accessories are favorites among installers and end-users around the world. Based on field-proven wireless technology, these systems offer ideal solutions for wireless installations and expansions, and provide the complete freedom and flexibility required to meet the demands of every architectural challenge. Suitable for any commercial or residential application, large or small, whatever the location, RISCO Group's wireless solutions bring a unique level of reliability and convenience to every project.

Detectors

Based on cutting-edge proprietary technologies, years of detector experience, ongoing input from the field and a commitment to quality and innovation, RISCO Group has created the most comprehensive range of sophisticated, reliable, elegant and installer-friendly detectors on the market today.

RISCO Group's detection technologies include the outdoor's selective event recognition capability enabled by Sway Recognition Technology using two MW channels, and by Digital Correlation Technology using two PIR channels. The revolutionary Anti-Cloak™ Technology (ACT™) prevents intruder-cloaking attempts. Green Line Technology enables eliminating microwave radiation when the premises are occupied. Intelligent Digital Signal Processing provides situation-based, event-specific detector responses. Variable Pet Threshold™ (VPT™) technology, together with custom designed lenses, enables a reliable distinction between intruders and pets. Because of these and other bold technological innovations, RISCO Group's detectors are chosen - again and again - for the complete peace of mind they bring to distributors, installers, and end-users everywhere.

Sounders

RISCO Group's external sounders are the first in the market to include a Surface Light Technology Strobe (SLT™), that has an extremely long lifetime and low power requirements, compared to xenon or halogen lamps used in most strobes. RISCO Group's external sounders can be connected to any control panel or installed on the bus of RISCO Group's Security Systems. When installed on the bus, the external sounders can be remotely diagnosed and controlled via the upload/download software or the keypad.



ProSYS™

Integrated Security Systems

Total Integration ... Sheer Opportunity.

ProSYS is a cutting-edge security system that was developed by RISCO Group in response to the changing needs of installers around the world. Integrating intruder alarm, access control, wireless 868/433MHz hybrid expansion and automation, ProSYS was designed for use in a wide range of institutional, industrial, commercial and residential applications.

With its comprehensive set of features, ProSYS offers unrivalled flexibility and extensive expansion capabilities. ProSYS accessories include Interactive Voice Module, Integrated Access Control, advanced TCP/IP communication for linking to local or remote networks, and unique GSM/GPRS modules.

ProSYS is easily installed and programmed using RISCO Group's advanced Auto-Install™ Technology. During setup, the system recognizes and enables rapid configuration of connected elements and accessories to simplify the installation.

The unique ProSYS remote diagnostic tools introduce a new level of remote service, enabling the pinpointing of problems prior to site visits, including locating intermittent fault wiring with the bus communication quality test.

Accessories are easily integrated into existing installations, ensuring installers ongoing business opportunities making ProSYS the ideal choice for any professional security installation.

**PD6662, EN50131-1 Grade 3, Environmental Class II
DD243 Compliant**

Specifications

	ProSYS 16	ProSYS 40	ProSYS 128
Security			
Zones	8-16	8-40	8-128
Zone expansion (wired or wireless)	8	32	120
Number of expansion buses	2	2	2
Partitions	4	4	8
Groups per partition	4	4	4
User Codes	30	60	99
Programmable Outputs	6-22	6-38	6-70
Supervised Power Supplies	8	8	8
Keypads	8	12	16
Account numbers	4	8	12
Weekly time schedules with 2 intervals per day	8	16	32
Event Log	250	250 expandable to 512	250 expandable to 999
Event Log for UK Versions	N/A	512 expandable to 999	512 expandable to 999
Access Control			
A/C Modules	2 (4 doors)	4 (8 doors)	8 (16 doors)
Users with A/C capability	250	900	900
Users with arm/disarm and A/C capability	30	60	99
Interactive Voice Module			
Follow-me numbers	8	8	16
Personalized messages (Common, Zones, Partitions, Outputs)	1,16,4,8	1,32,4,8	1,32,8,8
Technical			
Main Power	16.5V AC - 40VA transformer from 230V AC		
Total Auxiliary Power	12V DC -1.5A		
Battery - maximum allocatable	12V DC - 17Ah		
Programmable outputs on main board	6 - one 3A relay, one 500mA open collector and four 70mA O.C.		
Tamper Inputs	Main box tamper NC, Bell/Siren box tamper EOL		
Overload Protection	Automatic fuses		
Operating Temperature	0°C to 55°C (32°F to 131°F)		

ProSYS installations controlled by SynopSYS™ Security & Building Management Software enable very large installations with a virtually unlimited number of zones.

RP128P04yxxA	ProSYS 128 kit in metal box + Keypad
RP140P04yxxA	ProSYS 40 kit in metal box + Keypad
RP116P04yxxA	ProSYS 16 kit in metal box + Keypad

y: 0 for LCD Keypad
P for Proximity LCD Keypad

xx - Language/Market

ProSYS Laptop Demo Board

RISCO Group's ProSYS Laptop Demo Board is both a sophisticated sales tool and an ideal training tool, enabling you to exhibit the simple programming and other unique benefits of ProSYS. This unit plugs and plays straight out of the stylish laptop travel bag.

RP128DBLOxxA	ProSYS Laptop Demoboard
--------------	-------------------------

xx: Language/Market

ProSYS Benefits

Commercial Benefits

- Generates more revenue with additional business opportunities
- Saves on overhead costs
 - Simple installation
 - Training on one system
 - Reduces stock and spare parts
- Responsive Customer Support
- Comprehensive marketing tools:
 - Demo Boards and Training Kit
 - Brochures, Posters, Banners, Presentations

Technical Benefits

- Learn to install one system only
- Simple installation
 - Auto Install™ Technology
 - Menu-driven LCD keypad
- Variety of programming methods
 - Keypad
 - Up/Download software
 - Program Transfer Module
- Up/Download with Central Database
- Advanced local and remote diagnostic tools
- Simple service tools include unique bus test
- 100% Reliability

User Benefits

- Cost effective system solution - saves maintenance and installation time
- One integrated system manages all security, home automation and access control devices
- Fast IP network connectivity enhances monitoring and security
- Variety of easy-to-use operation options
- Learn to operate one system only, with one set of rules



Keypads

- Elegant 16x2 character LCD keypads with proximity keytag option
- Intuitive menu-driven user interface
- 4 one-touch buttons for easy group arm/disarm or macro operations

RPI28KCL0xxA	LCD Keypad
RPI28KCLPxxA	Proximity LCD Keypad + 2 keytags
RPI28KCLPUKA	Proximity LCD for UK + 2 Keytags
RPI28KTO000A	10 Proximity keytags
RPI28KL16xxA	16 LED Keypad
RPI28KL08xxA	8 LED Keypad

xx: 00 - English on keys & Indication LEDs
IC - Icons on Keys & indication LEDs

Proximity Electronic Keys

- For easy arm/disarm operation
- Up to 16 proximity key readers
- Same reader supports multiple partitions

RPI28PKxx00A	Proximity Key Reader + 2 keytags
RPI28KTO000A	10 Proximity keytags

xx: Housing type

Wireless Expansion

- Noise measurement and detector signal strength displayed on LCD keypad
- Wireless Outdoor, PIR, PIR pet, and smoke detectors
- 4 button keyfobs, 2 button panic keyfobs
- Wireless magnetic contact, flood and shock detectors

For Wireless Accessory details please see pages 26-29

RPI28EW0800A-B	Wireless 8 Zone Receiver 868MHz
RPI28EW1600A-B	Wireless 16 Zone Receiver 868MHz
RP296EW0800A	Wireless 8 Zone Receiver 433MHz
RP296EW1600A	Wireless 16 Zone Receiver 433MHz

Interactive Voice Modules

- Operate the system via a mobile phone
- Receive pre-recorded or personalized event messages
- Listen-in and speak-in to the premises
- Full voice menu guide

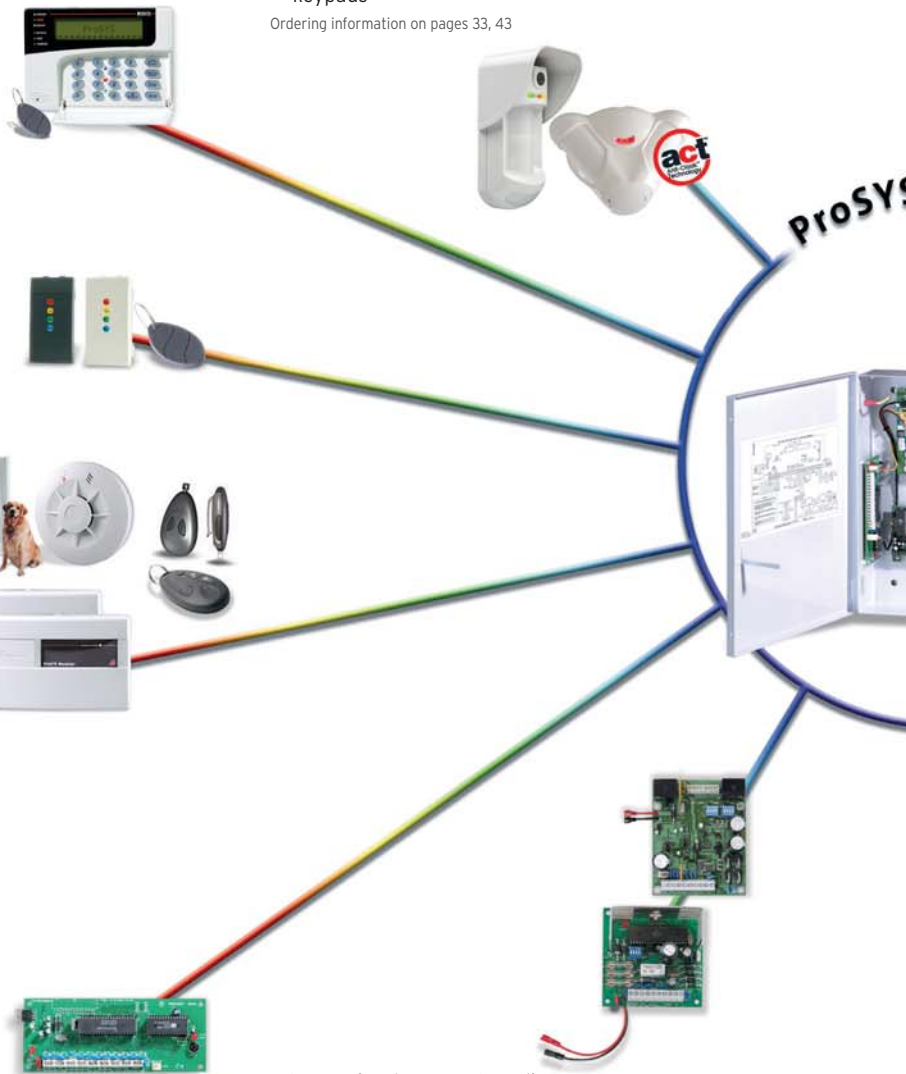
RPI28EV00xxA	Interactive Voice Module
RPI28EVM000A	Message Box + Listen-in and Speak Module
RPI28EVL000A	Listen-in and Speak Module

xx: Language

Addressable Indoor & Outdoor Detectors

- Install these advanced detectors on the ProSYS bus and discover an entirely new level of remote service and installation convenience
- ProSYS enables Remote Control and Diagnostics via the Upload/Download software or system keypads

Ordering information on pages 33, 43



Supervised Power Supplies
3A Switching Mode Power Supply (SMPS)

- 3 Amp Switching Mode Power Supply with full self supervision
- Advanced remote diagnostics
- Automatic battery protection, with remote battery voltage reading
- Built-in 1.7 Amp sounder driver, with remote reading of sounder current
- Includes two 3A relay outputs

1.5A Power Supply Expansion

- 1.5Amp 12V power supply for additional modules and sounder drivers
- Fully supervised for low battery, AC power loss, bell loop, auxiliary failure
- Built-in 900 mA sounder driver
- Tamper supervision

RPI28PSPSEUA	3A SMPS in large metal box	RPI28EPS00A	1.5A PS in large metal box
RPI28EPSPUKA	3A SMPS in medium metal box (UK)	RP296EPSPUKA	1.5A PS in medium metal box (UK)
RPI28EPS000A	3A SMPS PCB	RP296EPS	1.5A PS PCB

External Sounder

RISCO Group's ProSound is fully supervised and remotely diagnosable when installed on the ProSYS bus.

- Unique long-life Surface Light Technology (SLT) strobe
- Remote Control and Diagnostics via ProSYS includes measurements of sounder input voltage and current, speaker current, battery voltage and battery load test

Ordering information on page 53

ProSYS Remote Communication

Remote monitoring and communication via a built-in Digital Dialer, ACM module or GSM/GPRS module

- Support of all major pulse, SIA and Contact ID formats
- 3 Monitoring Station numbers for backup monitoring
- Up to 12 different account numbers - to associate account numbers according to backup monitoring station requirements
- Unique remote diagnostic capabilities via upload/download, with database sharing



ACM - Advanced Communication Modules

- Enables IP communication between the alarm panel and the Central Monitoring Station
- Fully supervised accessory of the ProSYS
- Secure communication with full SSL suite, encryption cipher key altered frequently
- Multiple channel Ethernet and Fast Modem interface
- Events may be reported to email addresses
- IP/GSM Receiver software available for Monitoring Station

For more information please see pages 20-21

RP128AB0100A	ACM Basic (RS485 and Ethernet interfaces)
RP128AA0100A	ACM Basic + Modem interface

AGM - Advanced GSM/GPRS Modules

- Primary and Backup reporting modes
- Encrypted SMS and GPRS reporting to RISCO Group's IP/GSM Receiver in the MS
- Voice/SMS/Email event messages
- SMS remote control
- Remote Upload/Download via GSM data channel

For more information please see pages 18-19

RP128GSXMxxA	AGM Bus Full Version (Voice, SMS, GPRS, Data) in Metal box
RP128GSXOxxA	AGM Bus Full Version PCB

xx: Market

Vault Control Module

- Advanced vault control and monitoring from the ProSYS keypad and Control Room
- Installed inside the vault and controls the electro-mechanical locker bolt
- Secure up to 8 vaults or ATMs
- Every action reported in real time over IP

Integrated Access Control up to 16 doors

- Arm/Disarm the alarm system easily with an access card, a key tag or a keypad
- Control the access for up to 16 doors independently
- Supports magnetic, proximity, barcode and biometric readers (Wiegand and Clock&Data protocols)
- Anti-passback feature

RP128EAC00xxA	Z Door Access Control Module
RP128EAR100A	HID Proximity Reader
RP128EAR200A	HID Proximity Reader with Keypad
RP128EAC100A	A/C Proximity Cards (25 units)
RP128EAC200A	A/C Thin Proximity Cards (50 units)
RP128EAK000A	A/C Proximity Keytags (10 units)

xx: Market

ProSYS Main Panel



Wired Expansion

Event Log Expansion

Output Expansion Modules

- Each output may be activated as a result of numerous events related to, partition, zone or user

X-10 Expansion Module

- Enables home automation via the AC wiring of the premises
- Supports up to 16 X-10 protocol receivers

Zone Expansion Modules

- Zone termination: NC, NO, EOL, DEOL (Triple EOL for UK)
- Programmable loop response from 10 ms up to 4 hours

Program Transfer Module

- Save backup of programming
- Copy programming from master system to other systems

Local Adaptors

- Parallel Printer Adaptor Module: connect any printer and eliminate time consuming serial communication setup required with serial printers
- PC USB - and RS-232 adaptors for local Upload/ Download

RP296EL5000A	512 Event Log Expansion Module
RP296EL9000A	999 Event Log Expansion Module
RP296E04	4 high current relay outputs module (3A)
RP296E08	8 open-collector outputs module (70mA)
RP296EXT	X-10 Expansion Module
RP296EZ8	8 Zone Hardwired Expansion Module
RP128EZ08G3A	8 Zone Hardwired Expansion Module with triple EOL (for UK)
RP128EZ8F00A	8 Zone Hardwired Expansion Module with Fast Response Time
RP296EZ16	16 Zone Hardwired Expansion Module
RP128EZ16G3A	16 Zone Hardwired Expansion Module with triple EOL (for UK)
RP128EE0000A	Program Transfer Module
RP128EUSB00A	USB to RS485 Adaptor
RP296EBA000A	RS232 to RS485 Adaptor
RP296PRT000A	Parallel Printer to RS485 Adaptor



AGM™ Advanced GSM/GPRS Module

RISCO Group's Advanced GSM/GPRS Modules (AGM) provides primary or backup cellular communication for reporting to up to 3 central stations. Reporting is performed via the GSM voice channel, or with encryption via the GPRS or SMS channels, in conjunction with the IP/GSM Receiver at the central station.

Remote Upload/Download programming over GSM, of ProSYS or WisDom security systems, is achieved using the GSM data channel at faster speeds compared to U/D over PSTN.

The AGM Universal Version is compatible with any control panel, supporting central station reporting of all panel protocols via the GSM voice channel.

Highlights

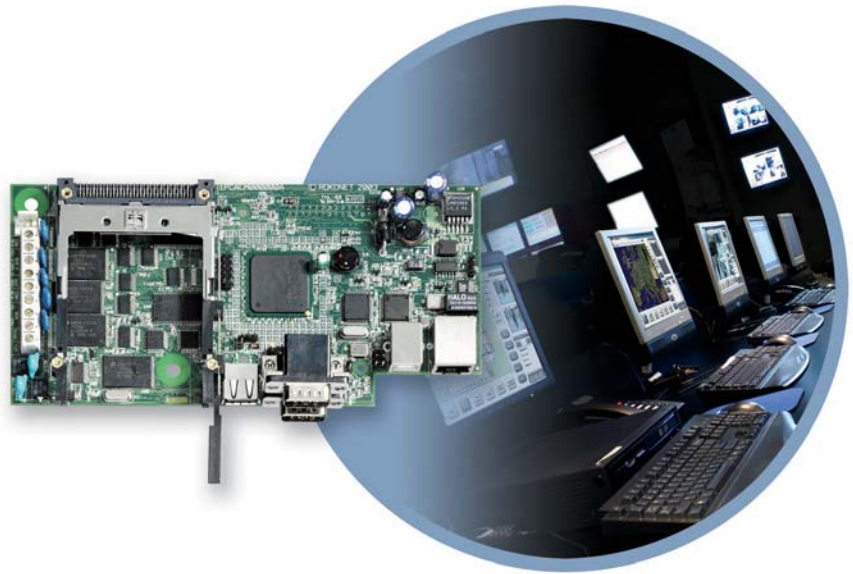
- PSTN line simulation
- Primary or Backup operation modes
- GPRS Class 10 connectivity
- Encrypted SMS and GPRS reporting to RISCO Group's IP/GSM Receiver in the central control room
- Selective Voice/SMS/Email event messages - up to 8 destinations
- SMS/DTMF remote system control by the user
- Local or Remote Upload/Download via GSM data channel
- Support for prepaid SIM cards
- Backup battery charger with deep discharge protection
- Universal version: 4 inputs, 4 outputs, 4 recordable messages

Feature	Universal Version	Bus Full Version	Bus SMS/GPRS Version
Control Panel Compatibility	All Control Panels, or stand-alone without any control panel	ProSYS, WisDom	ProSYS, WisDom
Primary or backup GSM/GPRS communication	✓	✓	✓
Phone line simulation and voice capability	✓	✓	-
128bit AES encrypted SMS and GPRS (Class 10) reporting in conjunction with RISCO Group's IP/GSM Receiver in the control room	✓	✓	✓
IP/GSM Receiver required for control room reporting	-	-	✓
Event driven SMS messages	✓	✓	✓
Event driven voice messages	Yes, with optional GSM/GPRS voice module	Yes, requires ProSYS/WisDom with voice capabilities	-
Event driven GPRS email messages	✓	✓	✓
SMS remote control with acknowledgment of command execution	✓	✓	✓
DTMF remote control support	Depends on control panel	✓	-
CLIP Remote Control, enables remote gate opening without call charges	✓	-	-
4 inputs for initiating SMS, GPRS or Email messages	✓	Via main panel	Via main panel
4 programmable outputs for SMS or event activation	✓	Via main panel	Via main panel
GSM Signal supervision and level measurement	✓	✓	✓
Support for prepaid SIM cards	✓	✓	✓
Remote Upload/Download configuration via GSM Data channel	✓	✓	✓
Phone calls can be made using an attached telephone (simulated telephone line via GSM)	✓	✓	-
Programming methods	Via SMS, Via PC using AGM Configuration Software (Local or remote)	ProSYS/WisDom keypad. Upload/Download local or remote	ProSYS/WisDom keypad. Upload/Download local or remote

Technical Specifications	
GSM industrial module	Quad band GSM 850/900/1800/1900 MHz
Operating power	13.8VDC +/- 10%
Current consumption	During communication - 300mA During quiescent state - 70mA
Recommended backup battery (optional)	12VDC/1.2A SLA rechargeable
Operating temperature	0°C to 55°C (32°F to 131°F)
Dimensions: (WidthxHeightxDensity)	
Metal enclosure:	185 x 275 x 65mm (7.2" x 10.8" x 2.6")
Metal enclosure with antenna installed:	185 x 335 x 65mm (7.2" x 13.2" x 2.6")

RP200GSyxxA	AGM Universal Version	RPI28GSMyxxA	AGM Bus SMS/GPRS Version (SMS, GPRS, Data)
RP200GSV000A	Voice Module for AGM Universal Version	RPI28IP0000A	IP/GSM Receiver Software CD and License
RPI28GSyxxA	AGM Bus Full Version (Voice, SMS, GPRS, Data)		

y: Select enclosure according to the following: M for Metal enclosure, O for PCB without enclosure
xx: Select antenna according to the following: 00 for GSM 900/1800 MHz (Europe & Asia Pacific)
US for GSM 850/1900 MHz (Americas)



ACM™ Advanced Communication Module

The ACM is an advanced TCP/IP module that enables organizations - especially those with multiple sites - to seamlessly link their security systems to their LAN/WAN networks, using existing Internet and Intranet connections. The ACM is based on an open architecture design, which enables easy integration and customization, according to individual project requirements.

Remote access, monitoring, diagnostics, maintenance and scheduling can be easily performed from any PC at any time, from any location - via a fast, secure, low-cost connection. This advanced module guarantees secure communication with a full SSL stack, using AES256 bit encryption and frequent cipher key changes.



IP/GSM Receiver

IP/GSM Receiver Software

RISCO Group's advanced IP/GSM Receiver Software is a Windows-based software package that works in conjunction with the ACM or AGM modules. Running on a network PC in the Central Control Room, this sophisticated software receives the encrypted protocol from the ACM or the AGM and translates the events into standard protocols used by Monitoring Station applications (e.g., Contact ID).

RP128AB0100A	ACM Basic (RS485 and Ethernet interfaces)
RP128AA0100A	ACM Basic + Modem interface
RP128IP0000A	IP/GSM Receiver Software CD and License

ACM Features:

- Provides IP connectivity over networks supporting the TCP/IP protocol (LAN and WAN)
- Secure communication with full SSL stack using AES256 bit encryption; Cipher key changed frequently
- Compatible with 10BaseT and 100BaseT networks
- Supports simultaneous multiple channel TCP/IP communication - Upload/Download communication and MS event reporting can be performed simultaneously
- Selected events may be reported to two different email addresses. Security Manager can receive security events, while installer receives technical indications only
- Supports dynamic network addressing (DHCP)
- Module firmware is upgradeable remotely
- Open architecture enables easy integration and customization according to project requirements
- Optional interfaces include:
 - Fast Modem 56Kbps
 - Two RS232C interfaces
 - USB interface
 - Additional RS485 interface
 - PCMCIA interface

Installing ProSYS with ACM and AGM in conjunction with IP/GSM Receiver in the central control room, provides the most advanced and secure dual-path TCP/IP and GPRS communication solution.



Pro-24



Keypads

- Elegant 16x2 character LCD or LED keypads
- Intuitive menu-driven user interface

RP128KCL0xxA	LCD Keypad ProSYS design	RP296KCLyyyy	LCD Keypad ORBIT-Pro design
RP128KL16xxA	16 LED Keypad ProSYS design	RP296KL16yyyy	16 LED Keypad ORBIT-Pro design
RP128KL08xxA	8 LED Keypad ProSYS design	RP296KL08yyyy	8 LED Keypad ORBIT-Pro design

xx: 00 - English on Keys & indication LEDs
IC - Icons on Keys & indication LEDs

yyy: Market

Pro-24

Pro-24 is a professional, reliable and cost-effective control panel for mid-size and small commercial or residential installations. Pro-24 is based on the best selling ORBIT Pro control panel that is installed in thousands of sites worldwide.

Pro-24 uses identical wired and wireless expansion accessories and has the same simple programming logic as the ProSYS and WisDom providing cost saving on stock, logistics and installer training.



Specifications

Zones	8-16 wired zones (expandable to 24 zones with wireless expansion)
Wired Zone expansion	One 8 zone expander
Wireless Expansion	One 16 zone wireless expander or up to two 8 zone wireless expanders
Partitions	8
User Codes	99
Programmable Outputs	1 expandable to 33
Supervised Power Supplies	8
Keypads	8
Account numbers	8
Event Log	128 expandable to 512 or 999

Technical Specifications

Main Power Input	16.5VAC - 40VA Transformer from 230V AC
Power Output	12V DC 1.5A total: 600mA Auxiliary, 900mA Sounder Driver
Operating Temperature	0°C to 55°C (32°F to 131°F)
Main Box Dimensions	305 x 297 x 84mm (12" x 11.7" x 3.3")

Main Control Panel

- 8 zones onboard
- Expandable to 24 zones with wireless expansion
- 8 partitions
- 128 event log expandable to 512 or 999
- 600mA auxiliary current + 900mA siren driver
- Digital Communicator: 3 central station numbers, 8 account numbers and 8 Follow-me numbers
- 4 wire RS485 bus for expansion with unique bus quality test (pinpoints intermittent faulty wiring and enables extending bus to over 1 km)

RP224P040xxA	Pro-24 kit in metal box with LCD keypad
RP224My00xxA	Pro-24 main panel PCB

xx : Language
y: Phone compatibility

Accessory boxes

RP296B1	Metal box for main and 3 expansion modules
RP296B2	Metal box for single expansion module
RP296B3	Metal box for multiple expansion modules



Wireless Expansion

- Noise measurement and detector signal strength displayed on LCD keypad, provides confidence to the installer regarding wireless communication quality
- Wireless Outdoor PIR, PIR pet, and smoke detectors
- 4 button and 2 button panic keyfobs, assigned to a zone
- Wireless magnetic contact, flood and shock detectors

* For Wireless Accessories details please see pages 26-29

RP128EW0800A-B	Wireless 8 Zone Receiver 868MHz
RP128EW1600A-B	Wireless 16 Zone Receiver 868MHz
RP296EW0800A	Wireless 8 Zone Receiver 433MHz
RP296EW01600A	Wireless 16 Zone Receiver 433MHz

Program Transfer Module

- Save backup of programming
- Copy programming from master system to other systems
- No need for phone line, PC or any other peripheral device

RP128EE0000A | Program Transfer Module



Zone Expansion Module

RP296EZB | 8 Zone Hardwired Expansion Module



Output Expansion

- Each output may be activated as a result of numerous events related to system, partition, zone or user

RP296E04	4 high current relay outputs module (3A)
RP296E08	8 open-collector outputs module (70mA)



Event Log Expansion

RP296EL5000A	512 Memory Expansion Module
RP296EL9000A	999 Memory Expansion Module



X-10 Expansion Module

- Enables home automation via the AC wiring of the premises
- Supports up to 16 X-10 protocol receivers

RP296EXT | X-10 Expansion Module



Local Adaptors

RP128EUSB00A	USB to RS485 Adaptor
RP296EBA000A	RS232 to RS485 Adaptor
RP296PRT000A	Parallel Printer to RS485 Adaptor



Supervised Power Supplies

- 1.5Amp 12V power supply for additional modules and siren drivers
- Fully supervised for low battery, AC power loss, bell loop, auxiliary failure
- Built-in 900 mA siren driver
- Tamper supervision

RP128EPSP00A	1.5A PS in metal box
RP296EPS	1.5A PS PCB

Voice Module

- Record and playback voice messages to "follow me" phone numbers.
- Up to 3 messages, total of 40 seconds
- Messages can be assigned to partitions and/or events

RP200xx | Voice Module

xx: Market





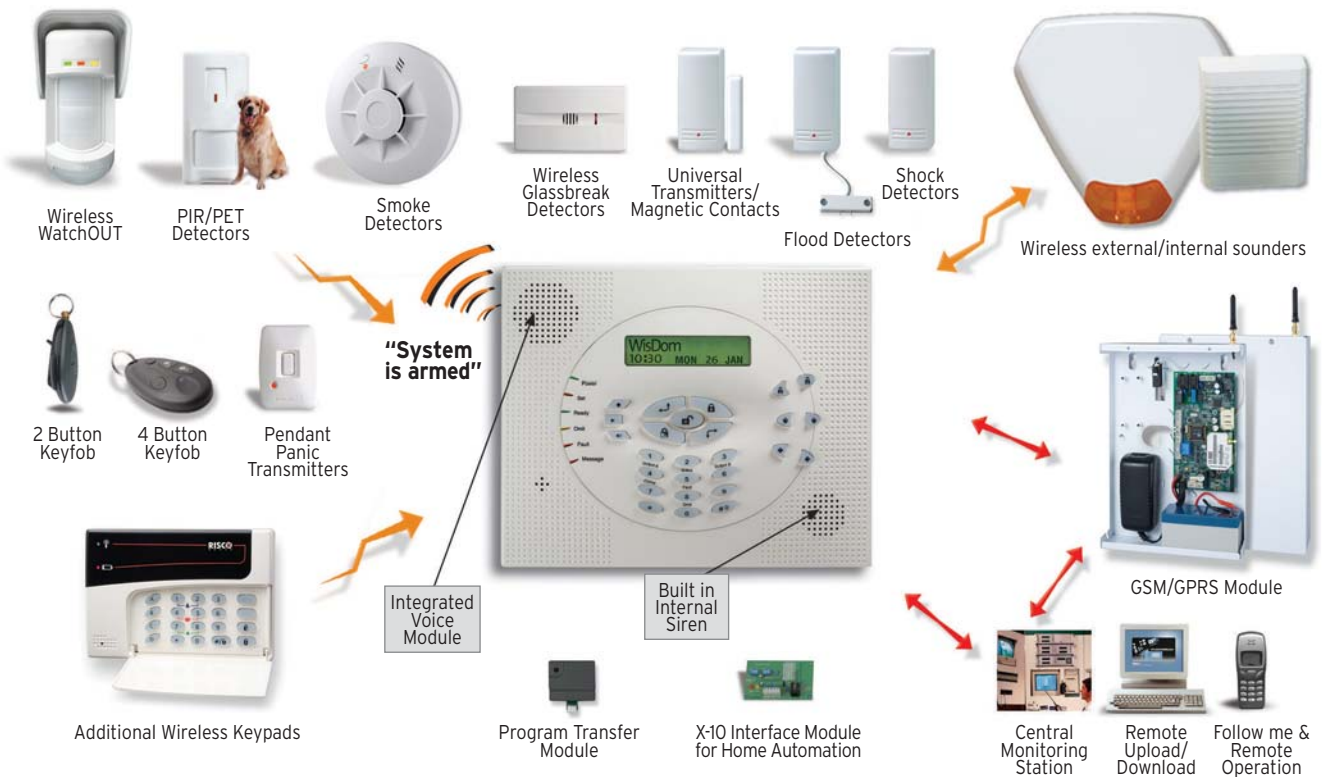
WisDom™

Wireless Security System

RISCO Group's WisDom Wireless Security System is the ideal solution for easy, quick and reliable installations. WisDom brings an unparalleled level of simplicity, speed and cost saving to every type of wireless installation.

Based on state-of-the-art technology, WisDom is the most dependable wireless system on the market. Offering years of trouble-free service, WisDom expands business opportunities for installers, while providing homeowners with complete protection and easy, trouble-free operation.

Unique installation tools and simple programming logic make WisDom a clear favorite of installers around the world.



WisDom increases your business opportunities with a wide variety of wireless accessories and modules:

- Fully Wireless Internal and External Sounders
- Advanced GSM/GPRS Modules
- Additional Wireless keypads
- PTM (Program Transfer Module) - for fast programming
- Wireless Outdoor Detectors
- PIR detectors
- PIR detectors with Pet immunity
- Magnetic Contacts and Universal Transmitters
- Smoke and Flood Detectors
- 4, 2 and single Button Keyfobs
- Shock and Glassbreak detectors
- X-10 Interface Module for Home Automation
- Wireless Repeaters

RWSALVP01xxy	WisDom Kit - 2 PIR, Contact, Keyfob	0 in place of V - without voice capabilities
RWSALVP02xxy	WisDom Kit - 2 PIR, Keyfob	xx - Language & Market
RWSALVP04xxy	WisDom Kit - 1 PIR, Contact, Keyfob	y - Frequency (A-868MHz, H-433MHz)
RWSALVP05xxy	WisDom Kit - 2 PET, Contact, Keyfob	
RWSALVP06xxy	WisDom Kit - 1 PIR, 2 Contact, Keyfob	
R5INWSAIMxx	WisDom Installer Manual	



WisDom Demo case

This handy sales tool in a stylish laptop-size bag will provide instant results for your Sales Force, by allowing them to conveniently demonstrate WisDom's benefits to home owners. Included are small magnets of the WisDom and all wireless accessories for attaching to a home image backboard.

RWSALVD0000A WisDom Democase (WisDom products for use in the democase to be ordered separately)

New 2-Way Wireless System Coming Soon

Sheer Elegance... Unrivalled Simplicity

RISCO Group's new 2-way Wireless Security System combines sheer elegance with unrivalled simplicity

Highlights

- Two-way LCD Proximity Keypads
- Plug-in GSM/GPRS module
- Plug-in PSTN module with Fast Modem
- Plug-in TCP/IP module
- Plug-in Voice module
- Two-way VOX audio
- Pre-programmed accessories in kit

Main Features

- 32 wireless zones
- 3 partitions
- 868 or 433 MHz radio frequencies
- Full range of wireless accessories
- Wireless external and internal sounders, fully battery powered

- Built-in Listen/Talk with VOX
- Program Transfer Module for configuration storage on removable flash memory
- Upload/download via PSTN, GSM, IP or local
- Built-in AC/DC adaptor
- Regular Lead-Acid Battery 6V, 3Ah

2-Way Proximity LCD Keypad

- For end-user operation and installer programming
- 32 character LCD + keyboard backlight
- Proximity tag for Arm/Disarm
- 3 year typical battery life
- Bracket to wall for easy installation
- Box and wall tamper

WisDom Main Features & Benefits

General

- 32 wireless zones + 1 wired zone
- 3 partitions, plus home and full arming options
- 868 or 433 MHz radio frequencies
- Wireless external and internal sounders, fully battery powered
- Up to 2 32-Button Panic Kefobs, for preventing false panic alarms
- Up to 8 4-Button rolling-code Keyfobs
- Advanced GSM/GPRS modules
 - Primary or backup Central Station reporting
 - Encrypted GPRS or SMS reporting
 - SMS/Voice/Email messages
 - Remote Control of WisDom via SMS or DTMF
 - Fast remote Upload/Download over cellular

Installer

- Simple programming logic - fully menu driven
- Wireless calibration and adjustable threshold level
- Actual transmitter signal strength and RF noise displayed on LCD
- All detectors supervised for presence, low battery, jamming and tamper
- Windows based remote and local Upload/Download
- Program Transfer Module for configuration storage on removable flash memory

End-User

- Voice menu guide for simple operation via telephone
- Two way voice communication to the premises
- Family message center
- Dedicated buttons for simple emergency notification
- Quick key operation of user functions
- SMS control when using GSM/GPRS module

2-Way Wireless System



Wireless Accessories

RISCO Group's line of cutting edge wireless accessories provide maximum flexibility for security systems, and are the ideal solution whenever wiring becomes too difficult, or when remote control operation is required. Using the most advanced RF technology, RISCO Group's wireless accessories ensure superior reliability and maximum range.

RISCO Group's wireless accessories are available in 868MHz or 433MHz. Range is up to 300m (1000') line of sight for all accessories except keyfobs that have a range up to 120m (400') line of sight. All wireless detectors are supervised and all accessories use one of 16 million codes for ID without dipswitches and include low battery transmission.



Wireless PIR Detector

Microprocessor-controlled wireless PIR detector

The PIR Wireless Detector is a wall mount passive infrared wireless detector, available with two interchangeable lenses - a wide-angle 15m (50ft) lens, or a long-range 25m (75ft) lens.

- Coverage: wide-angle lens 15m (50ft) 100°
- Long range lens 25m (75ft)
- Creep zone for close-in detection
- True temperature compensation algorithm with DSP
- Cover and back tamper switches in T92, tamper cover switch in T90
- Includes long-life 3V lithium battery

868MHz	433MHz	433MHz for USA
RWT92086800A-B	RWT90EUV2	RWT900433USA



Wireless PET Detector

Microprocessor-controlled wireless PET immune detector

The PIR PET Wireless Detector is a wall mount passive infrared detector with pet immunity up to 36kg.

- Coverage of 8m (26ft) 90°
- Unique VPT (Variable Pet Threshold) pet immunity algorithm
- Creep zone for close-in detection
- True Temperature compensation algorithm with DSP
- Cover and back tamper switches
- Includes long-life 3V lithium battery

868MHz	433MHz	433MHz for USA
RWT92P86800A-B	RWT90PEU000A	RWT90P433USA

Wireless Smoke Detector

The Wireless Smoke Detector is a photoelectric smoke detector for adding fire warning capability to intruder alarm systems. The smoke detector is designed for use in a single residential unit only. When sufficient smoke is detected, the detector will sound its alarm horn and the transmitter will send an alarm message.

- Ceiling mount
- No radiation emission
- Test mode
- Cover and back tamperers
- Uses a 9 volt lithium or alkaline battery

868MHz	433MHz	433MHz for USA
RWT33S86800A	RWT33S43300A	RWT30S433USA

Universal Transmitters and Magnetic Contacts

The Universal Transmitter is a supervised, general-purpose transmitter that can be connected to door and window magnetic contacts or to other sensors. A double-contact model includes two inputs with separate transmission channels within the same housing, for protecting 2 zones from one unit.

- Enables wireless operation of any NO or NC contact detector
- Internal reed contact and external magnet
- Selectable response time (10 msec, 400 msec)
- Sends alarm and restore signals, preventing panel arming when the zone is in state of alarm
- Tamper Protection
- Low battery and transmission and LED indication
- Includes 3V lithium battery with 5-year battery life

	868MHz	433MHz	433MHz for USA
WL Universal Transmitter	RWT72C86800A-B	RWT71EUV2	RWT71C433USA
WL Magnetic Contact	RWT72M86800A-B	RWT71EUMV2	RWT71M433USA
WL Magnetic Contact with EOL (IMQ approved)	RWT72M86800A-B	RWT71M4330A	-
WL Transmitter for Shutter Pulse	RWT72P86800A-B	RWT71EUPV2	-
WL Dual Channel Contact Transmitter	RWT72X86800A-B	RWT71X43300A	-

Wireless Shock Detector

The Wireless Shock Detector is based on the shock detection technology of the ShockTec wired shock detector. The Wireless Shock Detector comes in the same housing as the Universal Transmitter.

- Digital Microprocessor with Intelligent Digital Signal Processing
- Tri-color LED enables accurate and reliable calibration, with over-sensitive and under-sensitive indications
- Gross attack detection
- Encapsulated bi-morph piezo electric sensor
- Dual stage adjustment potentiometer
- Includes 3V long life lithium battery
- Cover & Back Tamper protection
- White or brown housing

868MHz	433MHz
RWT6Sy86800A	RWT6Sy43300A

y: Select housing colour: W - White, B - Brown

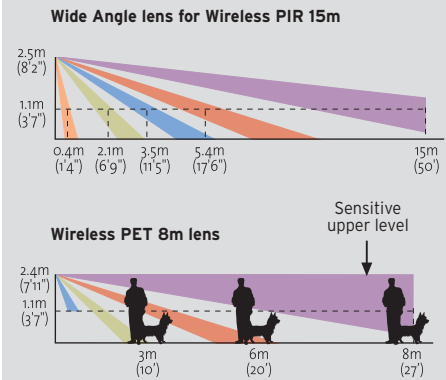
Wireless Flood Detector

The Wireless Flood Detector provides an alarm in case of flooding above the sensor level.

- Digital Microprocessor with Intelligent Digital Signal Processing
- 2.4m (8') cable between flood sensor and wireless transmitter
- Includes 3V long life lithium battery
- Cover & Back Tamper protection

868MHz	433MHz	433MHz for USA
RWT6FW86800A	RWT6FW43300A	RWT6FW433USA

Wireless PIR/PET Detector coverage



Wireless Smoke Detector



Universal Transmitters and Magnetic Contacts



Wireless Shock Detector



Wireless Flood Detector

Wireless Accessories



4-Button Keyfob

The 4-Button Keyfob is a miniature transmitter for use as a remote control with RISCO Group's Hybrid or Wireless systems. Button functionality is programmable to arm, disarm, stay, panic and output operations.

- Rolling Code technology or zone assignment
- Zone models have 3 channels for arm/disarm, panic and output operation
- Pocket size for key-ring or pendant mounting
- Low battery and transmission LED indication
- Includes lithium battery with 3-year typical battery life

	868MHz	433MHz
4-Button Rolling-Code Keyfob	RP128T4RC00A	RP296T4RC00A
4-Button Zone Keyfob	RWT54086800A	RWT540000EUA



2-Button Panic Keyfob

The 2-Button Panic Keyfob prevents false panic alarms by requiring that both buttons be depressed simultaneously in order to cause an alarm. The keyfob includes a handy belt-clip or it can be attached to a keyring.

- Key ring or belt mounting
- Assigned to a zone on the control panel
- Low battery and transmission LED indication
- Includes lithium battery with 3-year typical battery life

868MHz	433MHz
RWT52P86800A	RWT52P43300A



Wireless Keypad

The wireless keypad is a battery powered remote control unit used for operating RISCO Group's WisDom system.

- Rolling-code technology
- Large easy to operate buttons
- Low battery and transmission LED indication
- Includes lithium battery

868MHz	433MHz	433MHz for USA
RWSALKWL100A	RWSALKWL100H	RWSALKWL1USH

Wireless External & Internal Sounders

The External and Internal Sounders are fully standalone units requiring no AC power. They include a pre-alarm feature that begins at entry delay countdown and sends an alarm if the WisDom is vandalized during entry delay. Battery life economy is ensured through an advanced algorithm, and a low battery signal is included for both transceiver and sounder. The sounders are supervised by WisDom offering remote control via upload/download.

- Two-way wireless, fully battery powered sounders
- Range up to 150m (500ft) line of sight
- 105dBA piezo sound output, adjustable volume
- Cover and back tamper
- Includes 5 long-life 3V lithium batteries for 3 year typical battery life
- Additional on External Sounders:
 - Low-voltage long-life LED strobe
 - Adjustable strobe time and flash rate
 - Clips to hold external and internal covers during installation
 - Strobe available in Red, Blue, Amber or Transparent

	868MHz	433MHz
Wireless External Sounder	RWS5y868xxA	RWS5y433xxA
Wireless Internal Sounder	RWS40086800A	RWS40043300A

y: Select strobe colour: A - Amber, B - Blue, R - Red, T - Transparent
xx: Market

Wireless Repeater

The Wireless Repeater is compatible with RISCO Group's Receivers. By using Wireless Repeaters, the range can be extended up to 7 times.

Wireless Repeater Features

- High sensitivity super heterodyne receiver and transmitter
- Range up to 300m (1000ft) line of sight
- Up to 12 transmitters per receiver
- Repeaters can be chained for range extension up to 7 times
- Internal rechargeable battery backup (batteries not supplied)
- Accepts 12-16 volt AC or DC electrical supply

868MHz	433MHz	433MHz for USA
RP128EWR000A-B	RP296EWR000A	RP296EWR00USA

Wireless WatchOUT

Reliable Outdoor Detection



The Wireless version of the award winning WatchOUT PIR outdoor detector.

- Coverage: wide-angle lens 12m (40')
- Long range lens 23m (75') Barrier lens 15m (50')
- Digital Correlation Technology using two PIR channels with interlacing detection patterns. Only targets creating a correlated signal in both PIR channels are taken into account, eliminating false alarms from pets and rapid temperature changes
- Active IR Anti-mask
- 1.0m to 2.7m installation height
- A wide range of swivels for wall, pole, or barrier application
- IP65 environment rating
- Protective shielding for blocking out white light, allowing only IR energy to reach PIR sensors
- Hood - provides protection from sun, rain, snow, hail and birds
- Includes 2 long-life 3V lithium batteries for 3 year lifetime

868MHz	433MHz
RWT312PR800A	RWT312TR400A



Wireless Glassbreak Detector

The Wireless version of the ViTRON Glassbreak detector

- Protects all glass types: plate, tempered, laminated and wired
- Dual frequency pattern recognition
- Omni-directional microphone
- Full remote test using ViTRON Tester
- 9m (30ft) range
- Optional swivel bracket
- Cover and back tamper
- Includes long-life 3V lithium battery

868MHz	433MHz
RWT6G086800A	RWT6G043300A



Wireless External Sounder



Wireless Internal Sounder



Wireless Repeater



Wireless WatchOUT



Wireless Glassbreak Detector

Detection Technology

RISCO Group's Unique Detection Technologies

RISCO Group has developed a number of cutting-edge detection technologies that significantly increase catch performance while decreasing the incidence of false alarms. These unique technologies enable the rapid differentiation between humans and other sources of infrared and microwave interference both in Outdoor and Indoor environments.

Sway Recognition Technology

Microwave Technology for WatchOUT™ Outdoor Detector and WatchIN™ Industrial Detector

Sway Recognition Technology recognizes and excludes objects that sway and move repetitively, such as swaying bushes common in the unstable outdoor environment, or repetitively moving machinery parts in harsh industrial environments. Two MW channels enable to differentiate forward from backward moving targets and subtract their Doppler pulses, thus measuring the NET travel distance. Swaying bushes or targets with repetitive movement travel a limited NET distance and are instantly eliminated as intrusion events.

For more information see the WatchOUT movie at www.riscogroup.com

Digital Correlation Technology

PIR Technology for WatchOUT™ Outdoor Detector

Digital Correlation Technology ensures that only targets that cause similar and correlating signals in both PIR channels are potential threats. Two independent PIR channels with separate lenses create a vertically interlacing detection pattern, achieving pet immunity. Pets, due to their size, cannot be in both PIR detection patterns at the same time.

Digital Correlation Technology goes a step further. In the unpredictable outdoor environment separate events, such as a swaying bush in one PIR channel and a pet in the other, will create non correlated signals between the two PIR channels. False alarms from such events and from wind gusts or cloud/sun movement, which create uncorrelated rapid temperature changes, are effectively eliminated.

For more information see the WatchOUT movie at www.riscogroup.com



Anti-Cloak™ Technology

For Dual Technology Detectors - WatchIN, Industrial LuNAR Grade 3 & Grade 2, LuNAR DT Grade 3, iWISE DT Grade 3 & Grade 2

Anti-Cloak™ Technology (ACT™) is a patent-pending innovation that provides the benefits of dual technology while avoiding its drawbacks. The PIR channel in dual technology detectors has two major weaknesses:

- IR emission-blocking cloaks used by intruders block their IR radiation and enable avoidance of PIR detection.
- PIR sensitivity is reduced when the ambient temperature approaches body temperature, as shown in Figure 1.

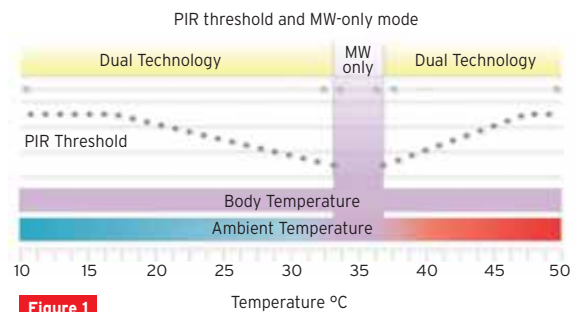


Figure 1

ACT™ enables superior catch performance by switching to MW-only mode either when the room temperature is close to body temperature, or when a cloaking attempt is recognized.

Delivering exceptionally high detection capabilities, as well as immunity from false alarms, ACT™ thwarts even the most sophisticated burglars.

For more information see the iWISE movie at www.riscogroup.com



Green Line

Environment friendly technology for DT detectors in WatchIN, Industrial LuNAR Grade 3, LuNAR DT Grade 3, iWISE DT Grade 3 & iWISE DT with ACT™ & GreenLine.

In response to the recent growth in environmental awareness, RISCO Group has implemented a new "Green Line" concept that avoids surplus radiation emission. In Green Line detectors, the active MW channel can be disabled when the alarm system is in "disarm" mode, thus eliminating surplus MW radiation while occupants are in the premises.

Intelligent Digital Signal Processing

PIR Processing Technology for WatchOUT, WatchIN, Industrial LuNAR, LuNAR DT Grade 3, iWISE and Wireless PIR detectors

Setting the alarm threshold for detectors is a major challenge for manufacturers. If the threshold is set too low, the detector will be prone to false alarms; if set too high, the detector will not be sufficiently responsive. RISCO Group's Intelligent DSP provides a real-time adaptation of the threshold to the speed that the intruder crosses the beams rather than a factory-fixed threshold, as shown in Figure 2.

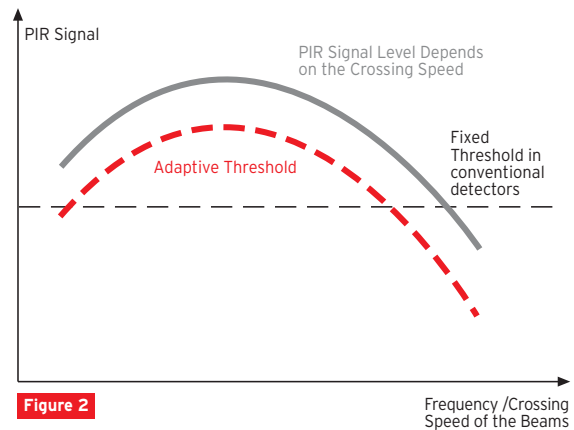


Figure 2

Variable Pet Threshold™ (VPT™)

PIR Processing Technology for WatchOUT, iWISE DT Pet, iWISE Pet, Wireless PIR Pet, Zodiac DT Pet, Zodiac Digital Pet

RISCO Group's unique VPT™ algorithms - together with a custom-designed lens - enables detectors to easily distinguish between intruders and pets, while ensuring superior catch performance. PIR signal levels depend on the crossing frequency of the detection beams. An intruder with a high crossing frequency (B) may have a lower signal level than a pet with a lower crossing frequency (A). Using a constant threshold may result in detecting pets while ignoring people!

VPT™ solves this problem by measuring the crossing frequency and selecting the correct threshold level for the alarm. The threshold is set above the pet signal and below the intruder level for each frequency, assuring that intruders are detected while pets are ignored, as illustrated in Figure 3.

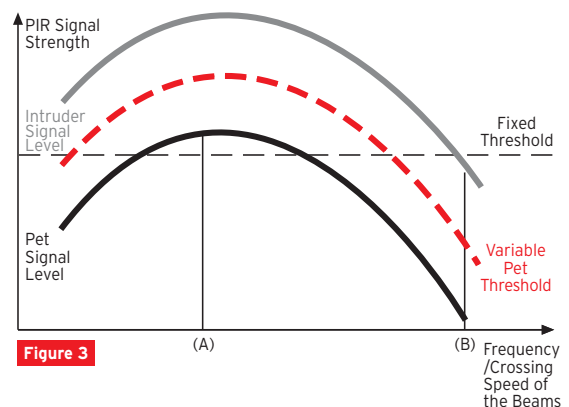


Figure 3

● WatchOUT™



WatchOUT™

Reliable Outdoor Detection

WatchOUT™ Outdoor Detectors provide the ultimate in reliable outdoor protection. WatchOUT™ is unique in its ability to recognize and distinguish between real intrusion events and the numerous false alarm causes inherent in the unstable outdoor environment.

WatchOUT™ provides selective event recognition utilizing:

- Sway Recognition Technology that uses two microwave channels to recognize and exclude objects that sway, such as bushes and tree limbs.
- Digital Correlation Technology that uses two PIR channels with interlacing detection patterns. Only targets creating a similar and correlated signal in both PIR channels are taken into account.

WatchOUT Features & Benefits

- Sway Recognition Technology for recognizing and eliminating targets that sway but don't move more than a set distance (bushes, tree limbs, etc.)
- Digital Correlation Technology for eliminating false alarms from pets, reflections and rapid temperature changes
- Optional integrated camera
- 1.0m to 2.7m installation height
- A wide range of swivels for wall, pole, or barrier application
- High security features include active IR anti-mask and anti-vandal wire protection for all brackets
- MW Anti-collision feature, enables adjacent or face-to-face detector installations
- IP65 environment rating
- Extensive remote control and diagnostics when installed with RISCO Group's ProSYS Integrated Security System
- 4 active IR channels for Anti-Mask and "dirty lens" alerts
- Protective shielding for blocking out white light, allowing only IR energy to reach PIR sensors
- Hood - provides protection from sun, rain, snow, hail and birds

Installation Flexibility Ensures Precise Coverage

WatchOUT™ detectors offer exceptional installation flexibility, enabling precise coverage of the protected terrain. This flexibility is due to the detector's variable mounting height - from 1.0m to 2.7m - and to the wide range of available swivels: wall swivel, barrier swivel, conduit bracket and pole adaptor bracket.



Pole adaptor Wall Swivel

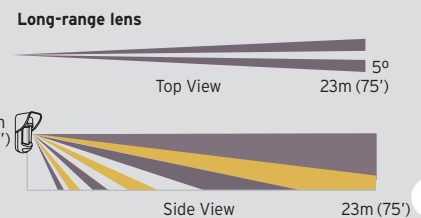
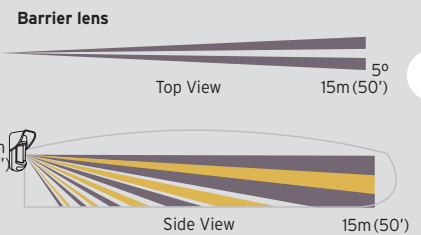
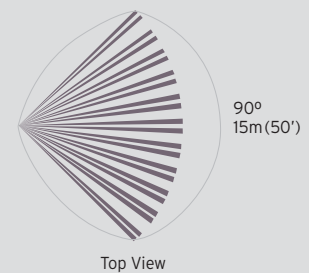
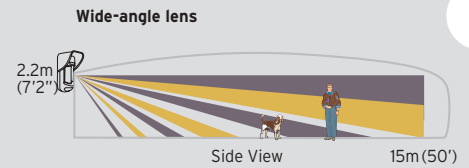
Specifications

	WatchOUT DT	WatchOUT PIR
Detection method	Two microwave and Two PIR channels	Two PIR channels
Wide angle coverage	15m (50ft) 90°	12m (40ft) 90°
Long-range coverage	23m (75ft) 5°	23m (75ft) 5°
Barrier coverage	15m (50ft) 5°	15m (50ft) 5°
Mounting height	Wide angle lens: 1m to 2.7m (1'3" to 8'10") Long range or barrier lens: 2.2m (7'2")	
Anti-mask and dirty lens indications	Via 4 active IR channels	-
Day/Night output	-	Activated via photocell
Operating voltage	9-16 VDC	
Current consumption	41mA typical, 62mA maximum	40mA typical, 56mA maximum
Alarm contact	NC, 100mA, 24 VDC	
Tamper contact	NC, 100mA, 24 VDC	
Anti-mask contact	NC, 100mA, 24 VDC	-
Dirty lens output	70mA open collector	-
RF immunity	40V/m from 10MHz to 1 GHz	
Weatherproof rating	IP 65	
Operating temperature	-30°C to 60°C (-22°F to 140°F)	
Dimensions (LxWxD)	128 x 64 x 41mm (5 x 2.5 x 1.6 inch)	

RK315DT00xxA	WatchOUT DT + Standard Swivel
RK312PR0000A	WatchOUT PIR + Standard Swivel
RA300B00000A	Barrier swivel

RA300P00000A	Pole adaptor
RA300C00000A	Conduit adaptor
RA300SC0000A	Swivel Metal Conduit
RA300HS0000A	WatchOUT Demo Housing + Standard Swivel

xx select the microwave frequency for your market according to the following list:
 00 - 10.525 GHz for most countries
 UK - 10.587 GHz for UK outdoors
 FR - 9.9 GHz for France and Czech Republic
 DE - 9.35 GHz for Germany



Pet immune lens for installations below 1.7m



● WatchOUT™



WatchOUT™

Reliable Outdoor Detection

With CCTV Camera

WatchOUT™ Reliable Outdoor Detectors with built-in CCTV lens cameras are a winning combination. The CCTV camera enables event-driven CCTV for viewing intruders and rapid intervention as well as for initiation of video recording.

WatchOUT™ with CCTV Camera is the ideal solution for applications with limited budgets, since installation is less costly than installation of a separate weatherproof camera, or when there is no need for expensive dome or pan-and-tilt cameras. An additional benefit is the relatively concealed camera.

WatchOUT CCTV cameras are available with either wide-angle or long-range lenses.

WatchOUT CMOS Camera Specifications:

Number of Effective Pixels	510X492(NTSC) 628X582(PAL)
CMOS Image Sensor	1/3" CMOS
Scanning System	2:1 INTERLACE
Synchronization	INTERNAL
Resolution (TV Lines)	380 TV Lines
S/N Ratio	more than 48dB
Minimum Illumination	3 Lux / F 1.2
Electronic Shutter	1/50 - 1/15000
Horizontal Sync Frequency	NTSC(EIA)-15.734kHz / PAL(CCIR)-15.625kHz
Vertical Sync Frequency	NTSC(EIA)-60Hz / PAL(CCIR)-50Hz
Gamma Consumption	0.45
Video Output	1Vp-p , 75ohms Composite
Audio Output	Frequency 20-16000Hz,S/N ratio more than 58dB SPL(at 1000Hz))(Ordering in advance)
Built-In Lens	16mm / F2.0(G-type)
Lens Angle	16mm / 21°
Storage Temperature	-30 to 60°C
Working Temperature	-10 to 45°C
Power Source	DC 6 ~ 10V
Power Current	50mA (max)

Solutions are available for additional camera models or for customers requesting to purchase and add their own cameras to the WatchOUT range. Please contact your nearest RISCO Group branch for details.

RA300VC017yA	WatchOUT cover with CMOS colour camera, 17° narrow-angle lens y: P-PAL N-NTSC
RA300VC053yA	WatchOUT cover with CMOS colour camera, 53° wide-angle lens y: P-PAL N-NTSC
RA300VPS100A	220VAC / 6VDC Power Supply for CMOS Camera
RA300VPS200A	110VAC / 6VDC Power Supply for CMOS Camera
RA300VC0001A	WatchOUT cover with adaptor for WATEC CCD camera (camera not included)



WatchOUT - An Award Winning Product

WatchOUT won the prestigious Detektor International award of Highly Commended Alarm Product for 2005, additional evidence of its unique qualities. To quote the judges: WatchOUT is **"a unique outdoor detector that really maintains effectively high levels of detection in hostile environments whilst eliminating unwanted activation"**.

The certificate may be downloaded from RISCO Group's website: www.riscogroup.com.





ViTRON™

Acoustic Glass Break Detectors

ViTRON™ glass break detectors add important perimeter protection by detecting intruders while they are still outside. Based on RISCO Group's unique pattern recognition algorithm, ViTRON offers superior detection of the breaking of all standard glass types and thickness, while disregarding non-framed glass breakage and other sources of false alarms. Adjustment-free and individually calibrated during production, ViTRON eliminates human error and ensures easy installation. Subjected to extensive testing, including the breaking of actual glass, ViTRON delivers total reliability. These exceptionally flexible detectors can be flush, surface, corner or swivel-mounted on any wall or ceiling, enabling optimal mounting and performance in every environment.

ViTRON provides complete, simplified testing capabilities through the ViTRON Tester, which enables onsite testing - including alarm relay activation - without opening the unit. In addition, an automatic "dead microphone" supervision test is continuously performed, based on ongoing environmental sound monitoring.

ViTRON™ Plus

Acoustic Glass Break Detector for Flush Wall/Ceiling Mount

ViTRON Plus combines advanced electronics with an attractive design providing a choice of wall/ceiling or flush mounting. The microprocessor-based glass-break pattern analysis ensures reliable detection while preventing false alarms. Simple to install, the ViTRON Plus is elegantly designed to blend into any decor.

ViTRON Plus Features

- Flush, wall or ceiling mount
- Protects all glass types: plate, tempered, laminated and wired
- Omni-directional microphone
- Full remote test without opening unit
- 9m (30ft) range
- Memory (latch) indication
- Dead microphone supervision
- Optional swivel bracket

VITRON™

Acoustic Glass Break Detector for Surface Wall/Ceiling Mount

VITRON Features

- Protects all glass types: plate, tempered, laminated and wired
- Dual frequency pattern recognition
- Omni-directional microphone
- Full remote test without opening unit
- 9m (30ft) range
- Memory (latch) indication
- Dead microphone supervision
- Optional Swivel bracket

VITRON™ Tester

Glass Break Simulator

The easy-to-operate ViTRON Tester simulates glass break sounds to verify proper installation of ViTRON detectors. The unit's remote test mode ensures easy testing - making it unnecessary to open the unit for testing.

VITRON Tester Features

- Advanced glass-breaking pattern generator
- Full remote test mode eliminates the need to remove the upper cover
- Auto/Manual operation modes
- Active battery LED indicator

RG61	VITRON 9m
RG6100G300A	VITRON 9m Grade 3
RG71FM	VITRON Plus 9m with flush mount plate
RG71FM0G300A	VITRON Plus 9m Grade 3
RG65	VITRON Tester
RA66	Swivel for VITRON and VITRON Plus

Specifications

	VITRON	VITRON Plus
Glass types:	Plate, tempered, laminated and wired	Plate, tempered, laminated and wired
Glass thickness:	3, 4.8 & 6 mm (1/8, 3/16 & 1/4 in)	3, 4.8 & 6 mm (1/8, 3/16 & 1/4 in)
Operating voltage: 9 to 16VDC	✓	✓
Current consumption: 20mA at 12VDC	✓	✓
Alarm contacts: NC, 50mA, 24VDC	✓	✓
Tamper contacts: NC, 0.5A, 24VDC	✓	✓
Acoustic sensor: Omnidirectional Microphone	✓	✓
Operating temperature: 0°C to 55°C (32°F to 131°F)	✓	✓
Storage temperature: -20°C to 60°C (-4°F to 140°F)	✓	✓
Dimensions:	87 x 51 x 29mm (3.4 x 2 x 1.1inch)	71 x 50 x 25mm (2.8 x 1.94 x 0.97inch) With flush mount 115 x 76 x 30.8mm (4.52 x 3 x 1.2inch)



VITRON



VITRON Tester



ShockTec™

Digital Shock Detectors

ShockTec™ Digital Shock Detectors provide reliable 24-hour perimeter protection. An alarm is activated - while the intruder is still outside - whenever there is an attempt to force, smash, drill or saw through a protected window, door, wall or roof. This minimizes minimum damage to the premises and its contents, as well as maximum personal security.

ShockTec™ Plus

The ShockTec Plus with Magnetic Contact ensures double protection on opening windows and doors. The detector can be mounted vertically or horizontally, with the magnetic contact on either side of the detector.

ShockTec Plus Features

- Tri-color LED enables accurate and reliable calibration, with "over-sensitive" and "under-sensitive" indications
- Internal magnetic reed switches for double protection (shock and contact) saves installation time and cost
- Magnet can be mounted on either side of the detector up to a 20 mm (0.8inch) gap
- Mounts on frame or glass, vertically or horizontally
- Dual stage adjustment potentiometer
- Encapsulated piezo-electric sensor
- Cover tamper protection
- Modern design with ample wiring space and hermetic wiring seal

ShockTec™

ShockTec's exceptionally reliable built-in calibration method prevents over or under sensitive settings.

Intelligent Digital Signal Processing discriminates between real attacks and natural background vibrations through a sophisticated analysis of the vibration signal's frequency, energy, amplitude and duration.

Simultaneous digital signal sampling of two separate channels provides an extremely wide dynamic range of the signal, enabling precise measurement and analysis of the shock signal.

ShockTec Features

- Tri-color LED enables accurate and reliable calibration, with "over-sensitive" and "under-sensitive" indications
- Mounts on frame or glass, vertically or horizontally
- Dual stage adjustment potentiometer
- Encapsulated piezo-electric sensor
- Cover tamper protection
- Modern design with ample wiring space and hermetic wiring seal

Typical Detection Range

Surface	Concrete	Brick Wall	Steel	Glass	Wood	Plywood
Radius	1.5m/5ft	2.5m/8.2ft	3m/10ft	3.5m/11.5ft	3.5m/11.5ft	4m/13ft

Specifications

	ShockTec	ShockTec Plus
Supply voltage	9V - 16V DC	
Current consumption (typical)	12.5 mA	7.5 mA
Operational temperature	-20°C to 60°C	
Maximum humidity	95% non-condensing	
Sensitivity setting	Dual stage potentiometer	
Tri-color LED indicator	Orange: Over-sensitive Green: Alarm & correct calibration Red: Under-sensitive	
Contact rating: Alarm relay	100mA at 24VDC, NC	100mA at 24VDC, NC, Opto relay
Tamper relay	500mA at 24VDC, NC	500mA at 24VDC, NC
Reed relay	N/A	100mA at 24VDC, NC
Alarm time	2.5 seconds	
Magnetic contact reed relay option	N/A	Two reed relays enable locating the magnet on either side of the detector
Latching modes	Any or 1st to latch operation modes	
Max no. of units on Any Latch loop	80	
Max no. of units on 1st to Latch loop	10	
False alarm protection	Digital microprocessor signal processing and noise reduction with maximum ground plane	
Electrostatic discharge	No false alarms up to 8kV	
RF immunity	40 V/m from 80MHz to 1GHz	
Enclosure material	Flame retardant ABS	
Enclosure dimensions	25x28x95mm 0.98x1.1x3.74 inch	Detector - 25x28x95mm 0.98x1.1x3.74inch Magnet - 10x12x58mm 0.39x0.47x2.28 inch

RK600S00000A	ShockTec (white)	RK600S0BR00A	ShockTec (brown)
RK600SM0000A	ShockTec Plus with Magnetic Contact (white)	RK600SMBR00A	ShockTec Plus with Magnetic Contact (brown)



ShockTec™

● WatchIN™

★
Coming
Soon



WatchIN™

Industrial Grade 3 Detector

The WatchIN™ Industrial Grade 3 Detector provides superior catch performance for a wide range of commercial and industrial applications. WatchIN™ includes RISCO Group's most advanced detection technologies including Anti-Cloak™ Technology, Quad Technology, GreenLine Technology, Active infrared for anti-mask, Sway Recognition Technology and Remote Control & Diagnostics via Bus communication. WatchIN is designed to meet EN 50131-1 and TS 50131-2-4 Grade 3 requirements.

Sway Recognition Technology is taken from the award winning WatchOUT Outdoor Detector and uses two microwave channels to recognize and exclude objects that move repetitively but don't travel, such as machinery parts or moving blinds.

- Addressable Dual Technology detector with Anti-Cloak™ Technology
- Quad Technology: Two PIR Channels with separate lenses
- Two microwave channels for eliminating false alarms from repetitively moving objects
- Built-in triple EOL resistors, jumper selectable
- GreenLine for disabling the MW when the building is occupied
- MW Anti-collision feature, enables adjacent or face-to-face detector installations
- Optional integrated camera
- High security features include active IR anti-mask and anti-vandal wire protection for all brackets
- Extensive remote control and diagnostics when installed with ProSYS Integrated Security System
- Form C changeover alarm relay
- A wide range of swivels brackets for wall or barrier application

Bus Installation together with ProSYS

Install WatchIN on the bus of RISCO Group's ProSYS Integrated Security Systems and enjoy additional benefits:

- Save on wiring costs with shorter cabling lengths due to serial in place of star configuration
- Simple 4 wire connection for all applications
- Advanced Remote Diagnostics including detector input voltage and status of the PIR and MW channels (signal voltage and noise levels)
- Remote Control of detector parameters including status and setting of Detection Sensitivity, MW Range Setting, LEDs On/Off, GreenLine On/Off, Sway Recognition On/Off, etc.

Specifications

EN50131 Grade	Grade 3
Detection method	2 Microwave channels + 2 PIR channels
Coverage	25m (83') 90°
Mounting Height	2.4m - 3.7m (7'10" - 12'2")
Anti-Cloak™ Technology (ACT)	✓
GreenLine Technology	✓
Anti-Mask detection method	Active Infrared
Built-in EOL resistors	Triple EOL, Jumper selectable
True Temperature Compensation	✓
Operating voltage	9 to 16VDC
Alarm contacts	1A, 30V, Form C changeover relay
Tamper contact	100mA, 24V, N.C.
Mask/Fault contact	Opto-relay 100mA, 24V, N.C.
Optical filtering for white light protection	PIR cover filters
RF immunity	40V/m from 10MHz to 1GHz
Operating temperature:	-30°C to 60°C (-22°F to 140°F)
Dimensions	227 x 110 x 123 mm (8.94 x 4.33 x 4.84 inch)

RK325DT00xxA	WatchIN Grade 3 DTAM + Standard Swivel
RA300B00000A	Barrier swivel
RA300P00000A	Pole adaptor
RA300C00000A	Conduit adaptor
RA300SC0000A	Swivel Metal Conduit

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 UK - 10.687 GHz for UK
 FR - 9.9 GHz for France and Czech Republic
 DE - 9.35 GHz for Germany



Retail chains, shopping malls



Warehouses, industrial sites, production facilities



Exhibition halls, museums



Industrial LuNAR™

High Ceiling Mount Detectors up to 8.6m/28ft

The Industrial LuNAR Grade 3 with ACT & Green Line is the most intelligent ceiling mount detector available on the market - with a unique bi-directional remote control and a mounting height of up to 8.6 meters (28 ft). As the only ceiling mount detector with Anti-Cloak™ Technology, it detects intruder camouflage attempts and delivers the highest performance level - even at high warehouse temperatures.

Industrial LuNAR Grade 3 with ACT™ & Green Line

- Addressable Dual Technology detector with Anti-Cloak™ Technology
- Up to 8.6m (28ft) mounting height
- 360° by 22m (72ft) diameter coverage pattern
- GreenLine for disabling the MW when the building is occupied
- Active Infrared Anti-masking
- Built-in triple EOL resistors, jumper selectable
- 3 independently adjustable PIR channels for customized coverage
- 3 tri-color LEDs for easy walk testing
- Intelligent Digital Signal Processing - alarm verification and decision thresholds adjusted according to environmental conditions and intruder crossing speed

Industrial LuNAR with ACT™ (Grade 2)

- Addressable Dual Technology detector with Anti-Cloak™ Technology
- Up to 8.6m (28ft) mounting height
- 360° by 22m (72ft) diameter coverage pattern
- 3 independently adjustable PIR channels for customized coverage
- 3 tri-color LEDs for easy walk testing
- Intelligent Digital Signal Processing - alarm verification and decision thresholds adjusted according to environmental conditions and intruder crossing speed



Industrial LuNAR Application

The Industrial LuNAR is optimal for protecting warehouses, due to the installation height of up to 8.6m (28') and due to Anti-Cloak™ Technology that detects even in the summer heat in warehouses without air-conditioning. Industrial LuNAR is the ideal solution for this application as the detector is difficult to mask or block unintentionally when shelves are rearranged or boxes are stacked up.

Industrial LuNAR Remote Control & Diagnostics

Once installed, the Industrial LuNAR can be controlled and diagnosed remotely using a unique bi-directional infrared remote control, or via the keypad or Upload/Download software when connected to Risco Group's ProSYS Integrated Security System.



Remote Control and Diagnostic Features

- Remote microwave adjustment enables one-man walk test without climbing ladders
- Diagnostic tools include detector input voltage reading and status of each PIR channel and the MW channel (signal voltage and noise levels)
- Remote display and control of detector settings including: MW adjustment, ACT™ On/Off, LEDs On/Off
- Remote trouble indicator (Pass/Fail) for the PIR, MW and power supply input via Bi-directional infrared remote control

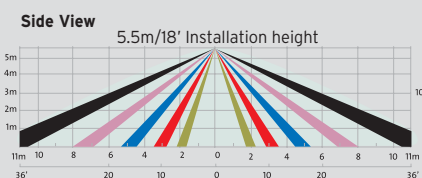
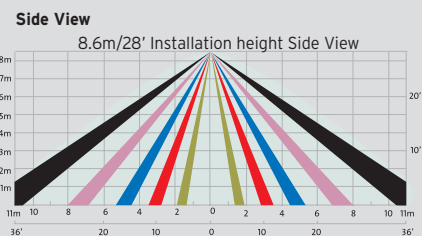
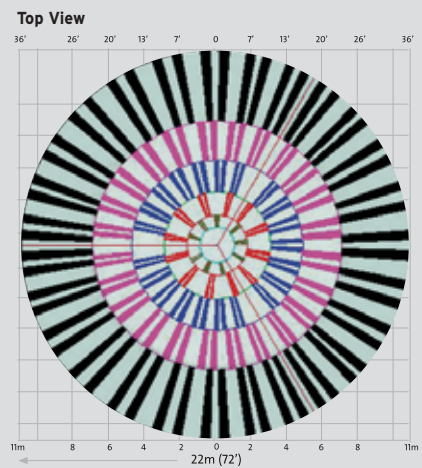
Specifications

	Industrial LuNAR Grade 3 DT AM with ACT™ & GreenLine	Industrial LuNAR DT with ACT™
EN50131 Grade	Grade 3	Grade 2
Coverage	360° by 22m (72 ft) diameter PIR coverage pattern consists of 192 fingers (96 fresnel facets) divided into 3 lens sections. Each lens section has 4 vertical positions adjustable for variable mounting height and customized coverage	
Variable Mounting Height	From 2.7m to 8.6m (9 to 28 ft) 4 lens positions according to installation height	
Intruder Detection Method	Dual Technology (PIR + MW) with Anti-Cloak™ Technology	
GreenLine Technology	✓	-
Anti-Mask	3 Active Infrared channels	-
Built-in EOL resistors	Triple EOL	-
True Temperature Compensation	✓	✓
Operating voltage: 9 to 16VDC	✓	✓
Current consumption	25mA at 12VDC, 34mA at 16 VDC Maximum 50mA with all LEDs on	20mA at 12VDC, 30mA at 16 VDC Maximum 50mA with all LEDs on
Output contacts: 100mA, 24V, N.C.	Alarm, Tamper & Mask	Alarm & Tamper
Optical filtering for white light protection	PIR cover filter	Pigmented Fresnel lens
RF immunity: 40V/m from 10MHz to 1GHz	✓	
Operating temperature: 0°C to 55°C (32°F to 131°F)	-20° C to 55° C (-4° F to 131° F)	
Storage temperature: -20°C to 60°C (-4°F to 140°F)	-20° C to 60° C (-4° F to 140° F)	
Dimensions	99mm x 194mm (3.9" x 7.6")	

RK200DTG3xxA	Industrial LuNAR Grade 3 with ACT & Green Line
RK200DT00xxA	Industrial LuNAR with ACT (Grade 2)
RK200RC0000A	Industrial LuNAR Remote Control

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 FR - 9.9 GHz for France and Czech Republic
 DE - 9.35 GHz for Germany

Coverage Pattern



● LuNAR™



LuNAR™

The LuNAR Series is the ideal solution for areas in which wall and corner mounting is unsuitable. LuNAR detectors are particularly useful in rooms where wall placement would cause detectors to be blocked by shelves, closets or storage areas. Combining sophisticated detection capabilities with a slim and attractive design, these advanced detectors employ a special 110° wide-angle spherical Fresnel lens that provides full 360° coverage. LuNAR detectors suit every interior and are ideal for all ceiling mount applications.

LuNAR DT Grade 3 with ACT™ and Green Line

- MW & PIR technologies
- GreenLine for disabling the MW when the building is occupied
- Anti-Cloak™ Technology (ACT™)
- Active Infrared Anti-masking
- Built-in EOL resistors, jumper selectable
- Indicates trouble in either MW or PIR channels
- Microwave range adjustment
- Opto-relays - low current consumption and long life cycle
- Anti-fluorescent interference signal processing
- Low profile design

LuNAR™ DT

LuNAR DT (Dual Technology) detectors assure reliable ongoing detection, while dramatically reducing false alarms through a combination of dual element Passive Infrared (PIR) and Microwave (MW) technologies - both of which must verify an intrusion in order to activate the alarm.

LuNAR DT Features

- PIR + MW technologies
- Microprocessor-controlled
- Patented true temperature compensation
- Microwave range adjustment
- Superior fluorescent interference rejection
- Superior RF immunity
- 3 LED walk test display
- Alternate polarity pulse count
- Low profile design

LuNAR™ PR

LuNAR PR uses dual-element Passive Infrared technology and offers adjustable sensitivity and variable pulse count. Advanced optics assures a 360° view.

LuNAR PR Features

- Temperature Compensation
- Superior fluorescent interference rejection
- Superior RFI immunity
- Low profile design
- Cost effective

Specifications

	LuNAR DT AM Green Line & ACT	LuNAR DT	LuNAR PR
EN50131-1	Grade 3	Grade 2	Grade 2
Anti-Mask Detection	Active Infrared	-	-
Green Line	✓	-	-
Anti-Cloak Technology	✓	-	-
Built-in triple EOL resistors	✓	-	-
LED & Set inputs	✓	-	-
Operating voltage: 9 to 16VDC	✓	✓	✓
Current consumption	25mA at 12V	25mA at 12V	15mA at 12V
Alarm contacts: 100mA, 24V, N.C.	Opto relay	✓	✓
Tamper contacts: 100mA, 24V, N.C.	✓	✓	✓
AM contacts: 100mA, 24V, N.C.	Opto relay	-	-
Optical filtering: White light protection	✓	✓	✓
Temperature compensation: Automatic thermistor-controlled	Microprocessor controlled (Patented True Temperature Compensation)	Microprocessor controlled (Patented True Temperature Compensation)	Analogue
RF immunity: 30V/m from 10MHz to 1GHz	✓	✓	✓
Operating temperature: 0°C to 55°C (32°F to 131°F)	✓	✓	✓
Storage temperature: -20°C to 60°C (-4°F to 140°F)	✓	✓	✓
Dimensions (Diameter x Height): 135 x 27mm (5.3" x 1.1")	✓	✓	✓

RK150DTG3xxA	LuNAR DT Grade 3
RK150Txx	LuNAR DT
RK2000xx	LuNAR PR

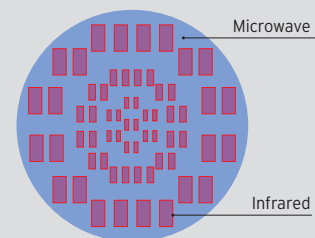
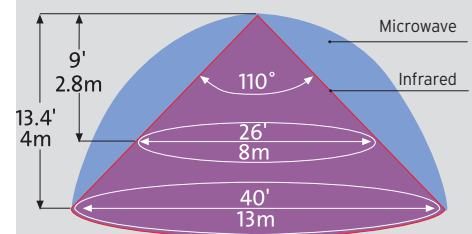
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LuNAR™ DT



LuNAR™ PR



- Microwave
- Infrared + Microwave



iWISE®

iWISE® DT AM Grade 3

The iWISE with ACT™ and Green Line Grade 3 series detectors are the ultimate for critical installations, incorporating both Anti-Mask and Anti-Cloak™ Technologies (ACT™), complying with PD6662, EN 50131-1 and TS 50131-2-4 Grade 3, and adhering to new environmentally friendly guidelines with Green Line.

Any attempt to mask the lens is detected by active infrared technology, while camouflaged burglars are identified by the ACT™ Technology. In response to the recent growth in environmental awareness, RISCO Group has implemented a new "Green Line" concept, effectively eliminating surplus MW radiation. iWISE Grade 3 detectors are available in 15m and 25m models, and include built-in end-of-line (EOL) resistors to simplify installation.

- MW & PIR technologies
- GreenLine for disabling the MW when the building is occupied
- Anti-Cloak™ Technology (ACT™)
- Active Infrared Anti-masking
- 15m (50') and 25m (83') models
- Built-in EOL resistors, jumper selectable
- Indicates trouble in either MW or PIR channels
- Creep Zone
- Microwave range adjustment
- Flexible installation height up to 2.7m (8'10")
- Opto-relay - low current consumption and long life cycle
- Anti-fluorescent interference signal processing
- Wall/corner or ceiling swivel (optional)
- Wall tamper-proof swivel (optional)
- Corridor lens (optional)



iWISE® DT with ACT™ and Green Line Grade 2

- MW & PIR technologies
- GreenLine for disabling the MW when the building is occupied
- Anti-Cloak™ Technology (ACT™)
- 10m (33'), 15m (50') and 25m (83') models
- Indicates trouble in either MW or PIR channels
- Creep Zone
- Microwave range adjustment
- Flexible installation height up to 2.7m (8'10")
- Anti-fluorescent interference signal processing
- Wall/corner or ceiling swivel (optional)
- Wall tamper-proof swivel (optional)
- Corridor lens (optional)



iWISE® QUAD AM Grade 3

The iWISE® QUAD AM is designed for high-risk installations. Two independent dual element PIR sensors and digital processing channels provide the highest level of catch performance and false alarm immunity.

Anti-Masking is achieved by an Active Infrared channel, which is located behind the lens to protect against covering or spraying of the lens - even with lacquer.

The iWISE QUAD AM complies with PD6662, EN 50131-1 and TS 50131-2-2 Grade 3 requirements and includes built-in EOL resistors for easier installation.

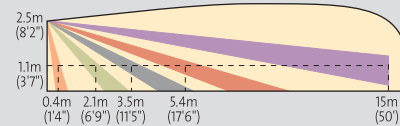
iWISE QUAD AM Features

- Two dual-element PIR sensors
- Two independent digital signal processing channels
- Coverage 15m (50ft)
- Active IR Anti-Mask with separate relay
- Built-in EOL resistors, jumper selectable
- Wall and Cover Tamper
- Opto-relays for low current consumption and long life time
- Remote and Local Self Test
- Set and LED control inputs
- Flexible installation height up to 3.3m (10'10")
- Patented True Temperature Compensation
- 3 LED walk test indication
- Creep zone
- Superior false alarm rejection of white light and hot air turbulence
- Wall tamper proof swivel (optional)

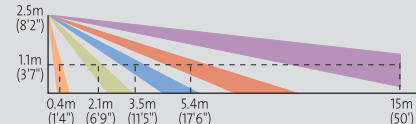
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RK825DTG3xxB	iWISE Green Line DT Grade 3 - 25m	RK800Q00000A	iWISE QUAD
RK800Q0G300B	iWISE QUAD AM - Grade 3	RA91T000000A	iWISE wall swivel with back tamper
RK810DTGLxxA	iWISE DT Green Line G2 - 10m	RA910000000A	iWISE wall/corner swivel
RK815DTGLxxA	iWISE DT Green Line G2 - 15m	RA900000000A	iWISE ceiling swivel

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Wide Angle coverage for iWISE DT 15m models



Wide Angle coverage for iWISE QUAD AM 15m





iWISE®

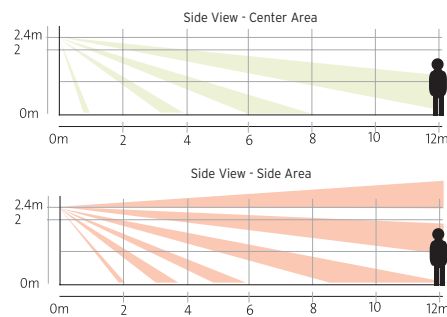
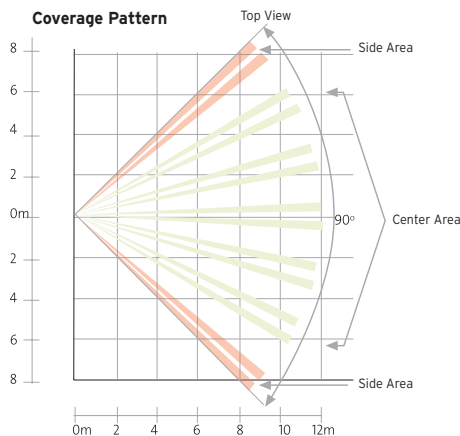
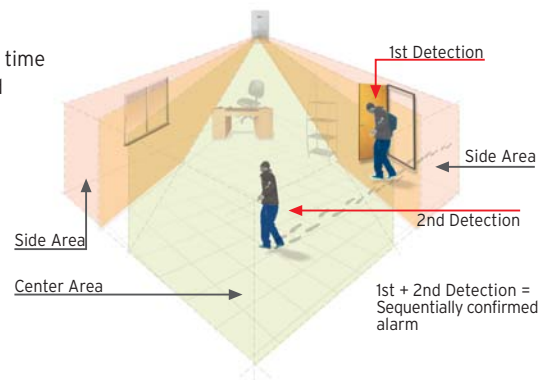
iWISE® QUADSEQ Grade 3

The iWISE QUADSEQ G3 contains two PIR detectors inside a single housing, with two non-overlapping coverage patterns, and two independent alarm outputs.

iWISE QUADSEQ G3 is designed to meet UK ACPO DD243 requirements for sequential confirmation, and also meet PD6662, EN 50131-1 and TS50131-2-2 Grade 3 requirements. Built-in Triple EOL resistors simplify installation, and active IR anti-masking provides reliable detection of masking attempts.

- Two PIR Detectors in a single housing with separate alarm outputs
- Two non-overlapping coverage patterns
- Coverage 12m
- Active IR Anti-Mask
- Built-in Triple EOL resistors, jumper selectable
- Wall and Cover Tamper
- Opto-relays for low current consumption and long life time
- Set and LED control inputs, positive or negative triggered
- Remote and Local Self Test
- 3 LEDs for easy walk test
- True Temperature Compensation
- Wall tamper proof swivel (optional)

RK800QS0000A iWISE QUADSEQ Grade 3

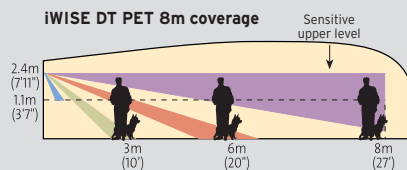
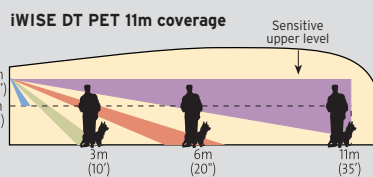
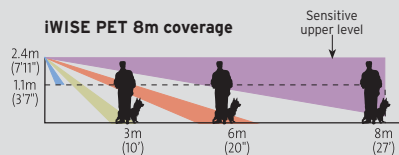
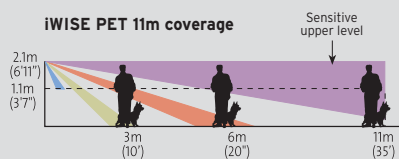


iWISE® PET / DT PET

The iWISE PET and DT PET are ideal for any type of installation where pets are present, allowing complete freedom of movement for pets with no loss of catch performance. These state-of-the-art detectors easily and reliably distinguish between intruders and pets, without false alarms. A specially designed lens - together with RISCO Group's unique Variable Pet Threshold™ (VPT™) technology and active creep zone - ensure intruder detection together with pet immunity.

- Pet immunity up to 45 kg (100 lb) dog and 6 cats [36kg (80lb) dog, 5 cats for PIR model]
- Superior catch performance
- 2 lenses provided for different installation heights:
 - Installation height 2.1m (6'11") - detection area: 11m x 11m (35' x 35')
 - Installation height 2.4m (7'11") - detection area: 8m x 8m (27' x 27')
- Active creep zone to ensure pet immunity without loss of intruder detection
- Unique VPT algorithm
- Patented true temperature compensation
- Dual PIR and microwave technologies for DT PET model

RK811DTPTxxA	iWISE DT PET	xx select the microwave frequency for your market according to the following list:
RK800PT0000A	iWISE PET	00 - 10.525 GHz for most countries FR - 9.9 GHz for France and Czech Republic UK - 10.687 GHz for UK DE - 9.35 GHz for Germany



Specifications

	iWISE Grade 3 DT AM	iWISE Grade 3 QUAD AM	iWISE QUADSEQ	iWISE DT	iWISE QUAD	iWISE DT Pet	iWISE Pet
EN50131 Grade	Grade 3	Grade 3	Grade 3	Grade 2	Grade 2	Grade 2	Grade 2
Coverage	15m, 25m (50', 83')	15m (50')	12m	10m, 15m, 25m (33', 50', 83')	15m (50')	8m, 11m (27', 35')	8m, 11m (27', 35')
Detection methods	Microwave + PIR	Twin Dual-element PIR's	2 separate PIR detectors in one housing	Microwave + PIR	Twin Dual-element PIR's	Microwave + PIR	Dual-element PIR
Anti-Cloak™ Technology (ACT)	✓	-	-	✓	-	-	-
GreenLine Technology	✓	-	-	✓	-	-	-
Anti-Mask detection method	Active Infrared	Active Infrared	Active Infrared	-	-	-	-
Built-in EOL resistors	Triple EOL	Triple EOL	Triple EOL	Double EOL	-	-	-
True Temperature Compensation	✓	✓	✓	✓	✓	✓	✓
Pet Friendly	-	-	-	-	-	45kg (100lb)	36kg (80lb)
Operating voltage: 9 to 16VDC	✓	✓	✓	✓	✓	✓	✓
Output contacts: 100mA, 24V, N.C.	Alarm, Tamper & Mask	Alarm, Tamper & Mask	Alarm, Tamper & Mask	Alarm & Tamper	Alarm & Tamper	Alarm & Tamper	Alarm & Tamper
Optical filtering for white light protection	PIR cover filter	PIR cover filter	PIR cover filter	Pigmented Fresnel lens	Pigmented Fresnel lens	Pigmented Fresnel lens	Pigmented Fresnel lens
RF immunity: 30V/m from 10MHz to 1GHz	✓	✓	✓	✓	✓	✓	✓
Operating temperature: 0°C to 55°C (32°F to 131°F)	✓	✓	✓	✓	✓	✓	✓
Storage temperature: -20°C to 60°C (-4°F to 140°F)	✓	✓	✓	✓	✓	✓	✓



ZoDIAC™

The ZoDIAC Series, specially designed to assure superior catch performance and false alarm immunity, is the ideal choice for residential and small commercial installations. Based on RISCO Group's advanced detection technologies, the ZoDIAC family provides a comprehensive range of detector solutions.

Due to their identical, compact and attractive housing, the installer can easily combine the various technologies of ZoDIAC detectors in one installation, while maintaining the same overall look.

ZoDIAC™ DT

The ZoDIAC DT includes an advanced microprocessor utilizing complex algorithms that ensure the ultimate in responsiveness and reliability. With a tri-color LED and fully adjustable microwave range, the ZoDIAC DT detector provides outstanding catch performance together with high false alarm immunity, even in the harshest environments.

ZoDIAC™ DT PET

The ZoDIAC DT PET utilizes a custom designed lens combined with advanced algorithms to provide pet immunity up to 34kg (75lb) with no loss of catch performance. This sophisticated and stylish detector is the ideal solution for residential installations with pets.

- Up to 12x12m (40'x40') coverage
- Dual Technology (MW and PIR)
- X-band Microwave Technology
- Pet immunity up to 34kg (75lb)
- Microprocessor-based Digital Signal Processing
- True Temperature Compensation
- 3-color LED indicator for easy walk test
- Microwave range adjustment
- Low current consumption
- Anti-fluorescent interference signal processing

Digital ZoDIAC™ PIR

The Digital ZoDIAC PIR is specially designed for excellent catch performance and high false alarm immunity. An advanced microprocessor enables complete software-driven, digital motion detection and True Temperature Compensation. Easy installation is assured by the internal cable duct, ample wiring space, and supplied free swivel. An optical protective sleeve and white light protected lens prevent false alarms.

Digital ZoDIAC™ QUAD

The Digital ZoDIAC QUAD has all the advantages of the Digital ZoDIAC PIR, plus a real QUAD element sensor that provides added catch performance and false alarm immunity in hostile environments. Real QUAD elements assure improved coverage while significantly reducing false alarms caused by warm air gusts, moving curtains, and temperature variations.

- Full 12x12m (40'x40') coverage
- Microprocessor-based Digital Signal Processing
- Flexible installation height
- Free swivel for wall/ceiling mounting
- Optional long-range lens
- Internal cable duct and ample wiring space for easy installation

Digital ZoDIAC™ PET

The Digital ZoDIAC PET utilizes a custom designed lens and Variable Pet Threshold (VPT) algorithms to provide pet immunity for 32kg (70lb) animals with no loss of catch performance. This sophisticated detector is the ideal solution for residential installations with pets. In order to ensure the PET immunity performance, the Digital ZoDIAC PET comes without a swivel.

- Pet immunity up to 32kg (70lb) coverage
- Digital microprocessor-based Variable Pet Threshold
- 8m (26') 90° coverage
- Optional long-range lens
- Internal cable duct and ample wiring space for easy installation

Specifications

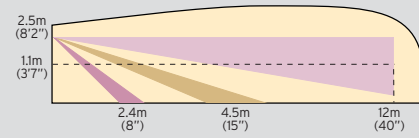
	ZoDIAC DT	ZoDIAC DT PET	Digital ZoDIAC PIR	Digital ZoDIAC QUAD	Digital ZoDIAC PET
Microprocessor-based Digital Signal Processing	✓	Variable Pet Threshold (VPT)	✓	✓	Variable Pet Threshold (VPT)
Pet Friendly	-	34Kg (75lbs)	-	-	32Kg (70lbs)
Operating Voltage 9 to 16VDC regulated	✓	✓	✓	✓	✓
Current Consumption	18mA	18mA	14mA	14mA	15mA
Alarm Contacts NC, 100mA, 24VDC maximum	✓	✓	✓	✓	✓
Tamper Contacts NC, 100mA, 24VDC maximum	✓	✓	✓	✓	✓
Alarm Time 2,2 seconds minimum	✓	✓	✓	✓	✓
Selectable pulse count	1,2	1,2	1,2,3	1,2,3	1,2,3
Temperature Compensation Automatic, thermistor controlled	True Temperature Compensation	True Temperature Compensation	True Temperature Compensation	True Temperature Compensation	True Temperature Compensation
Swivel adjustment Horizontal: ±25° Vertical: +5°,-20°	-	-	✓	✓	-
Optical Filtering: White light protection, pigmented lens	✓	✓	✓	✓	✓
RF Immunity (10MHz to 1GHz)	25V/m	25V/m	25V/m	25V/m	25V/m
Operating Temperature -10°C to 50°C (14°F to 122°F)	✓	✓	✓	✓	✓
Storage Temperature -20°C to 55°C (-4°F to 131°F)	✓	✓	✓	✓	✓
Dimensions 107 x 58 x 39mm (4.2 x 2.3 x 1.5in)	✓	✓	✓	✓	✓

RK410DT00xxA	ZoDIAC DT	RK410PT0000A	Digital ZoDIAC PET
RK410DTPTxxA	ZoDIAC DT PET	RK410PR	ZoDIAC PIR
RK410PRD000A	Digital ZoDIAC PIR	RK410RQ	ZoDIAC QUAD
RK410QD0000A	Digital ZoDIAC QUAD		

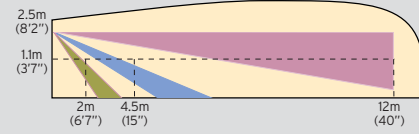
RK410PT0000A	Digital ZoDIAC PET
RK410PR	ZoDIAC PIR
RK410RQ	ZoDIAC QUAD

xx select the microwave frequency for your market according to the following list:
 00 - 10.525 GHz for most countries
 UK - 10.687 GHz for UK
 FR - 9.9 GHz for France and Czech Republic
 DE - 9.35 GHz for Germany

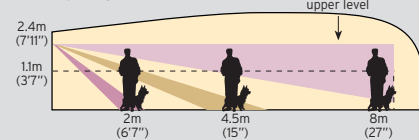
ZoDIAC DT/DT PET coverage



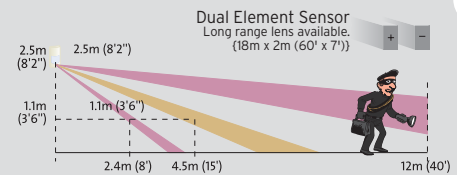
Optional Corridor Lens for ZoDIAC DT



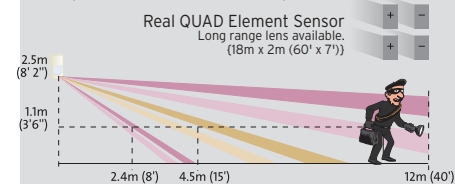
ZoDIAC DT PET



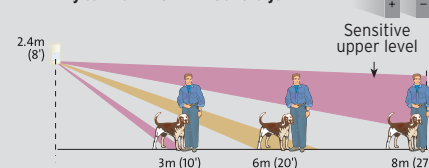
Digital ZoDIAC PIR Coverage



Digital ZoDIAC QUAD Coverage



Digital ZoDIAC PET Coverage





ProSound™

Professional External Sounder

RISCO Group's advanced ProSound External Sounder combines exceptionally high performance and reliability with an elegant design, making it the ideal addition to any burglar or fire alarm installation.

Based on RISCO Group's innovative Surface Light Technology (SLT™) - in which light is emitted from a surface mount device - ProSound requires significantly less current and extends the expected lifetime of the strobe to up to 50,000 hours. Offering a unique level of protection from intruders as well as from the environment, ProSound includes patent-pending anti-foam, anti-drilling and anti-approach technology plus a weatherproof and vandal-resistant cover.

ProSound can be purchased as a standalone unit and connected to any control panel. It can also be installed in conjunction with RISCO Group's systems, adding sophisticated remote control and diagnostic capabilities that ensures ongoing savings in time and truck-roll.

ProSound Features

- Long-life SLT™ strobe (patent pending) combined with 106 dBA sounder
- Unique anti-foam, anti-drilling and anti-approach protection (patent pending)
- UV-treated weatherproof and vandal resistant polycarbonate housing
- Double skin with internal metal cover
- Simple installation and maintenance
- Remote Control and Diagnostics when connected to RISCO Group's systems
- Input protected against polarity reversal, interferences and over-voltages
- Negative and positive triggering inputs
- Auto-recharging battery circuit
- Automatic battery disconnection prevents battery deep discharge
- Battery enables 36-hour backup or 80 minutes alarm
- Wall and cover tampers with internal EOL resistor
- Arm/Disarm and alarm memory indications via status LED

Remote Control and Diagnostic Features when connected to RISCO Group's systems

- Remote reading of input voltage level
- Measurement of input charge current
- Remote speaker current level (when speaker is active)
- Remote battery voltage level measurement
- Initiate battery load test
- Programmable strobe flashing frequency (20 to 60 times/minute)
- Adjustable anti-foam attack sensitivity

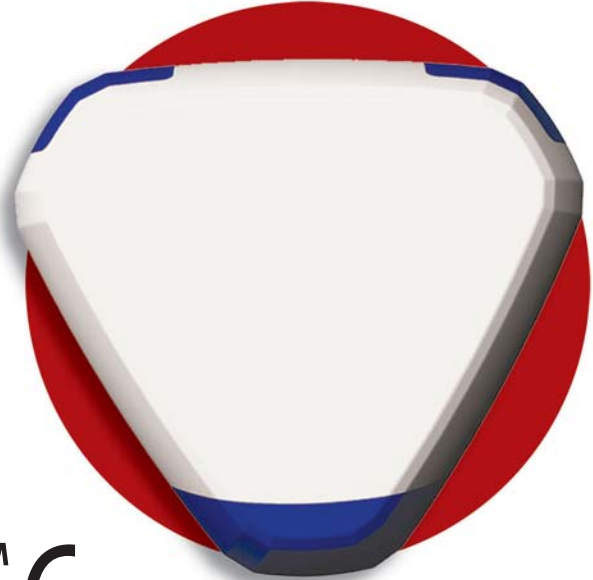
Specifications

Input voltage and current	13.5 to 14.2 VDC, 200mA maximum
Standby current consumption	54mA + battery charge current
Battery charge current	140mA maximum
Operating current (Siren + Strobe)	1A nominal (1.6 A maximum)
Speaker Sound level	106 dBA at 3 meters
Tone frequency	1500-1800 Hz
Strobe light	Surface Light Technology SLT™ with 6000 mcd
Strobe lens	Polycarbonate
Strobe flash rate	60 times per minute
Backup battery (not supplied)	SLA (Sealed Lead Acid) rechargeable, 12V, 2.2 Ah, UL approved, Size (L x H x W): 178 x 64 x 35 mm
Battery discharge protection	Automatic disconnection below 10.5 VDC
Ingress protection	IP 34 rating
Operational temperature	-25°C to 70°C (-13°F to 158°F)
Humidity	95% maximum
Housing material	Polycarbonate with UV protection
Tamper contact	0.5A, 24V, termination NC or internal EOL resistor
Anti-foam contact	0.1A, 24V, NC termination
Dimensions (H x W x D)	305 x 218 x 116 mm
Weight (without battery)	2.03 kg
Compatibility	All control panels
RISCO Group systems compatibility	4 wire RS485 bus, up to 300m from main panel

RS200WAP000A	ProSound External Sounder Double Skin with Anti-Foam Protection
RS200WA0000A	ProSound External Sounder Double Skin



Novagard™ 6



Novagard™ 6

The Novagard 6 external sounder is designed for simple installation in today's demanding requirements. The Novagard 6 range offers a choice of cover and lens colour options and a robust inner cover in a modern low profile shape.

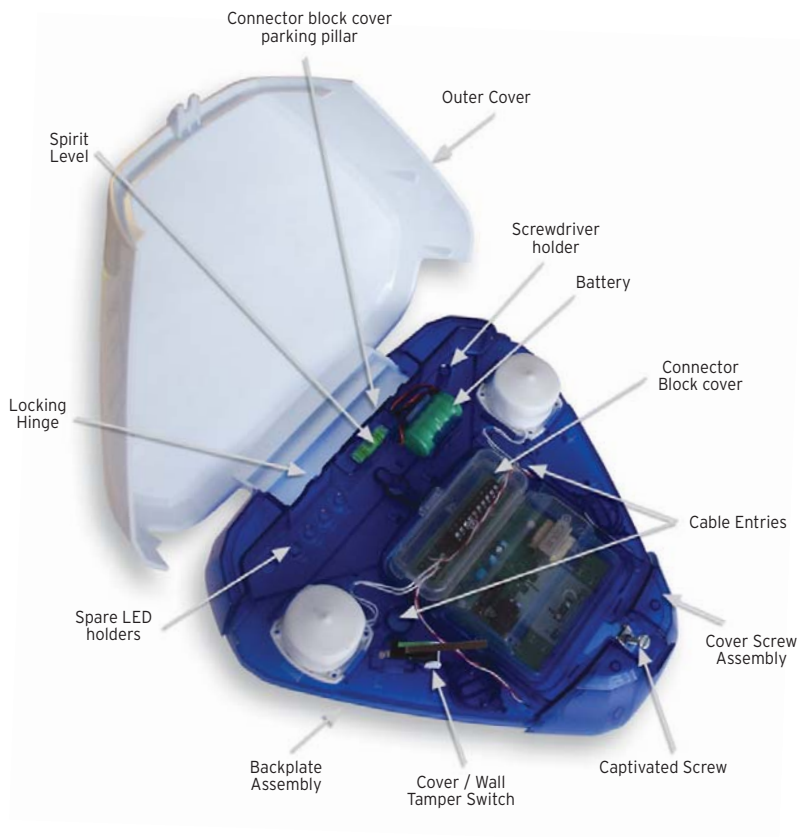
A built-in spirit level is contained within the sounder to ensure your unit is level on both the live and dummy versions, and a locking hinge and screwdriver holder act as a second pair of hands during installation.

Patent pending adjustable swivel screw-holes for mounting ensure you are still able to mount in a level manner, in the event your drill slips. Engineer Mode ensures you do not suffer from high sound output when the lid is removed. A LED indication ensures the sounder is not left in this mode.

Novagard GA Technology allows intelligent two-way communication via Active Technology between the sounder and RISCO Group control panels and is included as standard.

- Twin piezo sounders
- Onboard Spirit Level
- Encapsulated PCB
- SAB/SCB selectable
- Built-in Bell Tamper
- Audible setting confirmation
- Engineer mode select
- 2 selectable sound options
- Novagard GA Technology as standard
- Novagard Active Technology compatible
- Cover & Wall Tamperers as standard

PD6662, EN50131, Grade 3, Environmental Class IV



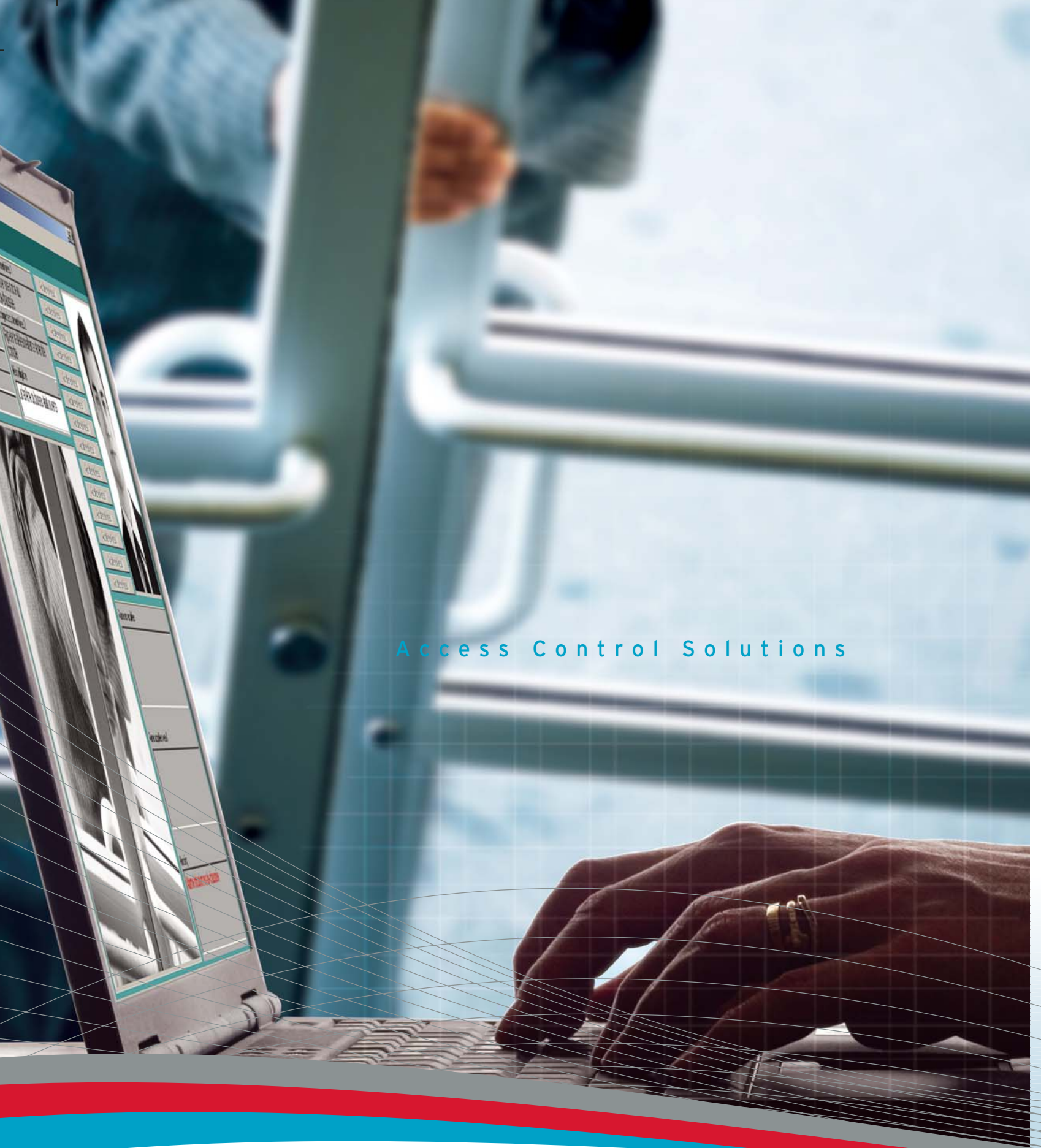
Specifications

Standby current consumption	23mA
Maximum operating current (Sounder + Strobe)	464mA
Sounder current	392mA
Sounder current (Quiet Mode)	200mA
Strobe current	72mA
Sounder level	113 dBA at 1m
Strobe lens	Polycarbonate
Housing material	Polycarbonate with UV protection
Tamper	Front and Rear
Compatibility	All control panels

GT22240	Novagard 6 Twin Piezo Blue Backplate
GT22241	Novagard 6 Twin Piezo Red Backplate
GT22242	Novagard 6 Twin Piezo Opal Backplate
GT22243	Novagard 6 White Cover
GT22244	Novagard 6 Red Cover
GT22245	Novagard 6 Yellow Cover
GT22246	Novagard 6 Dummy Blue Backplate
GT22247	Novagard 6 Dummy Red Backplate
GT22248	Novagard 6 Dummy Opal Backplate
GT22249	Novagard 6 High Security Upgrade Kit

Novagard 6 with High Security Upgrade Kit





Access Control Solutions



Access Control

Solutions

RISCO Group's range of Access Control solutions ensures complete project flexibility, providing ideal solutions for every size and type of installation - from large institutions to smaller offices. Utilizing the latest technologies, RISCO Group offers the most advanced management and configuration modules with sophisticated network communications.

RISCO Group Access Control systems are specially designed for easy installation, easy operation and 100% reliability. RISCO Group Access Control systems are used in banks, universities, institutions, retail chains, commercial establishments and thousands of other locations around the world.

Our Access Control systems, wherever they are installed, benefit from 20 years of experience in the field and the highest level of ongoing technical support.

Software



MaxiTalk

MaxiTalk is the ultimate access control management tool, with capability to manage huge installations with a virtually unlimited number of users and doors, together with RISCO Group's Access Control hardware.

Installed in hospitals, universities, banks, financial institutions, commercial premises and public buildings, MaxiTalk is used by thousands of organizations. It manages access and presence by zone, providing a secure working environment for employees and protecting clients, suppliers, visitors, equipment and data. MaxiTalk is ideal for the simplest applications as well as for the most complex ones.

Main Features and Benefits

- Advanced Access Control
 - Control access at doorways, turnstiles, rotary door, lifts, gates...
 - Zone management (counting and identification of individuals per zone)
 - Time range management
 - Anti-passback / anti-timeback
 - Control presence and locate individuals
 - Control number of people present in a given zone
 - Counters
 - Print reports
 - Crisis management (Vigipirate, Defcon, ISPS)
 - User friendly handling of access authorization exceptions
- Manages up to 22,000 cards at each door

- Management of multiple sites using a central database
- Secure access to information controlled per individual user
- User interface adaptation per individual user
- Communication with external systems
- Full biometric integration
- Comprehensive event management integration
 - Intrusion
 - Door open, door stayed open
 - Unauthorized use of cards
- Technical events
 - Hardware failure
 - Low batteries
 - Network communication problem
 - Windows™ NT service failures

- Multilingual
- Integrator tools
 - Macro language for automation and customised behaviors
 - Macro triggered from desktop or from customizable web interface
 - Access authorization management from end user own applications
 - System errors reported using standard formats (Syslog, NT events...) for IT control rooms

Integration with

- MaxVisit - visitor management
- MaxPresence - graphical presence display
- MaxAlarm - alarm management
- MaxWeb - Web/Intranet

ACMTALK1000A	MaxiTalk 1 door License - up to 4 doors
ACMTALKPL10A	MaxiTalk extra door module - above 5 doors
ACMTALKUL00A	MaxiTalk Unlimited License - above 63 doors



MaxVisit

MaxVisit is a software package for welcoming and managing visitors. Among other things, it enables you to schedule visits, to identify a visitor and to display the visit log for each person.

Using MaxVisit you can log the arrival and departure time of each visitor. MaxVisit offers complete integration with our KeyFree range of access control equipment and software. Used in combination with MaxiTalk, it allows you identify visitors when they arrive; assign them with a badge valid for the duration of their visit. In addition, the visitors will be assigned access permissions appropriate to the nature of their visit.

Report printing, storing information (such as the visitor's name and company) and a link to the switchboard are just a few of the many features offered by MaxVisit.

Main Features and Benefits

- Visitor management
 - Visitor black list
 - Visitor identification
 - Automatic link to the visited person using visitor's history records
 - Visit planning (manages multiple entrances for large sites)
 - Visit history
 - Managements of access controls (multi-sites)
 - Print of a batch of cards (by company,...)
- Display visits planned for current day
- Assign "visitor badges" in combination with MaxiTalk, or independently with MaxVisit

- Single click actions
 - Open door
 - Set off alarm
 - Dial phone number
 - Send an email
- Information about visitor's name and company
- Print visit reports
- Multilingual

Integration with

- MaxiTalk - access control
- Maxi.Net - Web / Intranet
- MaxImage - badges

ACMVISIT000A MaxVisit Software Package



MaxPresence

MaxPresence is a software package developed for viewing presence and absence of employees. Used in conjunction, and completely integrated with MaxiTalk, MaxPresence is the essential tool for displaying presences graphically.

MaxPresence displays the photo of each person. When used with MaxiTalk, it displays the name of the zone in which the person is located. MaxPresence allows full customization of the information displayed.

Main Features and Benefits

- Graphic display of absence/presence for each person
- Filtering of information displayed per user
- Picture of each person
- Sorts individuals by name, service, zone, site...
- Visual alarm when a person moves to a different zone or upon a person's arrival on site
- Advanced searching tool
- Full customization of information displayed for each person
- Name of zone in which the person is located
- Last event for the selected person
- Access to reasons for absence like illness, day off, training... (when using MaxiTime)
- Single click actions
 - Open door
 - Set off alarm
 - Dial a phone number
- Customize interface settings for each user
- Multilingual

Integration with

- MaxiTalk - access control

ACMPRES0000A | MaxPresence Software Package

Maxi.Net

Access control management from a web browser interface

Maxi.Net allows users to manage the access control features from a web browser. Maxi.Net is the web alternative to the MaxiTalk application. Maxi.Net has advanced filtering capabilities specifying who a user can see and which elements (doors, reader group...) can be modified or assigned.

Main Features and Benefits

- Add and remove persons and cards
- Manage access authorizations
- Configure reader group, readers and calendars
- Manage doors on planned time range and specify
 - Free access mode
 - Lock/unlock mode
 - Controlled mode
- Print reports on configuration sent via Email
- Direct event log requests using user friendly interface
- Microsoft Internet Explorer and Firefox compatible

ACMNET0000A | Maxi.Net Software Package



MaxImage

Badge Personalization

MaxImage allows customisation of cards and printing them in a specific layout.

MaxImage is easy to use, both when taking photos and when designing an appropriate layout, meaning that cards are quick to print. MaxImage makes your cards look professional, and allows to design cards with specific card printers.

ACMIMAGE000A | MaxImage Badge Personalization

MaxiMon*

MaxiMon is a simple software package that shows access control, alarm and other events occurring in real-time. The events are saved and can be printed out. The user interface can be configured for each user. Events can be associated with specific sounds and colours.

ACMMON0000A | MaxiMon Graphical Monitoring Package

MaxiBGTK*

MaxiBGTK is a background tasking application that enables and controls communication between RISCO Group's Access Control hardware and software modules. It runs as a regular Windows application or as a Windows NT service.

*Complimentary software packages

Controllers



KF-R7

The KF-R7 is an electronic controller for managing the opening and closing of doors, shutters, barriers or turnstiles. Although this device is part of the KeyFree range, it can also be used separately. As it cannot be disrupted by any power or communication loss, using the KF-R7 considerably increases the reliability of the access control system. The KF-R7 manages from 1 to 4 doors or 2 turnstiles. It includes all the necessary relays and sensors.

Main Features and Benefits

- Opto-coupled communication lines
- Local memory and processing allowing for continuous operation independently from network connectivity status
- Supports more than 30 card protocols
- Compatible with RISCO Group Access Control range

Management and control

- 1 to 4 doors
- 1 to 2 turnstiles
- 4 relays and 8 sensors
- Memory: 22,000 people + 2,500 events
- Configurable via Intranet (optional)

- Real-time clock
- Watchdog with LED to display its status

Communication

- 4800 & 9600 bauds
- TCP/IP (optional)
- RS-232 (optional)

Security

- Detects power loss
- Detects weak battery
- Detects weak lithium battery

Control software

- MaxiTalk - access control
- MaxAlarm - alarm management
- Maxi.Net - Web / Intranet

Power Supply	13.8 V ± 5%
Consumption	Idle: 300mA (at 13.8 VDC) without reader Maximum: 350mA (at 13.8 VDC) without reader
Fuse	1600mA
Dimensions/Weight	
PCB only	203mm x 173mm / 330g
With box (power supply 3A)	380mm x 315mm x 85mm/ 4900g
Memory	32 KB basic Ram + 512 KB extension, battery protected
Reader inputs	Capacity to link 4 reading heads TTL inputs for ISO format (clk,dat) or wiegand (D0,D1), configured by dipswitch 5 VDC or 12 VDC auxiliary outputs to supply reading heads Outputs for 8 LED's, 2 LED's per head
Outputs	4 relays NO and NC contacts Available Isolation 4kV Nominal switching voltage 250VCA Maximum switching voltage 440VCA Maximum switching capacity 2kVA Rated carry current 8A
Communication	Opto-coupled current loop with RISCO Group Access Control hardware and software on 4 wires (R+,R-,T+,T-), maximum 600 metres between two active units. TCP/IP interface or RS232 (optional)

ACKFR74B300A KF-R7 Access Controller up to 4 doors with Box and Power Supply



KF-24/24 Input/Output

The KF-24/24 Input/Output is an electronic device used to control and capture information. It has 24 inputs and 24 outputs and allows you to manage different types of alarms. Used with MaxAlarm software, the KF-24/24 Input/Output reader allows you to centralise technical sensors and contacts.

Main Features and Benefits

- Local memory and processing allowing continuous operation independently from network connectivity status
- Opto-coupled communication lines
- Configurable as an alarm control system
- Compatible with RISCO Group Access Control range

Management and control

- Remote control of relays from software
- Displays state of inputs via intelligent synoptic table

- Real-time clock
- Watchdog with LED to display its status

Communication

- 4800 & 9600 bauds
- TCP/IP (optional)
- RS-232 (optional)

Control software

- MaxAlarm - alarm management
- MaxiTalk - access control

Power Supply	13.8 V \pm 5%
Consumption	Idle: 200mA (at 13.8 VDC) Maximum: 350mA (at 13.8 VDC)
Fuse	800mA
Dimensions/Weight	
PCB only	265mm x 225mm / 680g
With box	385mm x 344mm x 60mm / 3600g
Memory	32 KB RAM, battery protected
Inputs	24 inputs
Outputs	24 relays
NO and NC contacts	Available
Insulation	4kV
Nominal switching voltage	250VCA
Maximal switching voltage	440VCA
Maximum switching capacity	2kVA
Rated current	8A
Communication	Opto-coupled current loop with RISCO Group Access Control hardware and software on four wires (R+, R-, T+, T-), maximum 600 metres between 2 active units. TCP/IP Interface or RS232 (optional)

ACKF2424BOXA | KF-24/24 Input/Output in Box

Controllers



KF-Lift

The KF-Lift controller manages lift access in 12-floor segments.

The KF-Lift controller can be used in higher buildings by simply linking together several 12-floor modules. Linked to the circuitry of the lift, the KF-Lift reader controls user access to each floor completely independently.

Main Features and Benefits

- Local memory and processing allowing for continuous operation independently from network connectivity status
- Opto-coupled communication lines
- Compatible with RISCO Group Access Control range

Management and control

- 12 floors per KF-Lift reader
- Independent floor control
- Fits different lift types
- Real-time clock

- Watchdog with LED to display its status

Security

- Automatic bypass (e.g. in case of breakdown)
- Ability to add up to 3 "fire service" contacts

Communication

- 4800 & 9600 bauds
- TCP/IP (optional)
- RS-232 (optional)

Control software

- MaxiTalk - access control
- MaxAlarm - alarm management

Power Supply	13.8 V ± 5%
Consumption	Idle: 500mA (at 13.8 VDC) Maximum: 570mA (at 13.8 VDC)
Fuse	1600 mA
Dimensions/Weight	
PCB only	400mm x 220mm / 870g
With box (power supply 3A)	487mm x 337mm x 60mm/ 6000g
Memory	32 KB basic Ram, battery protected Extendable to 4 x 128 KB, battery protected
Inputs reader heads	Capacity to link 2 reading heads TTL inputs for ISO format (clk,dat) or wiegand (D0,D1), configured by dipswitch 5 VDC or 12 VDC auxiliary outputs to supply reading heads Output for LED's, 2 LED's per head
Outputs	26 relays NO and NC contacts Available Isolation 4kV Nominal switching voltage 250VCA Maximum switching voltage 440VCA Maximum switching capacity 2kVA Rated current 8A
Communication	Opto-coupled current loop with RISCO Group Access Control hardware on 4 wires (R+,R-,T+,T-), maximum 600 metres between two active units. TCP/IP interface or RS232 (optional)
Security	There are 2 relays for each floor. The first one is for normal access control management. The second one is the "fire security" bypass relay which is linked to the 3 "fire service" contacts.

ACKFLIFTBOXA | KF-Lift Control in Box

Access Control Accessories

PC-USB Interface

The PC-USB Interface enables communication between the MaxiBGTK Software, using one of the PC's USB ports, and one or more RISCO Group Access Control cards located on a single loop. Each computer that runs the MaxiBGTK may be equipped with one or many PC-USB interfaces. Each additional PC-USB creates an additional loop and extends the total number of devices managed by MaxiTalk.

ACIPCUSBINTA PC-USB Interface

PC-RS232 Interface

The PC-RS232 Interface enables communication between the MaxiBGTK Software, using one of the PC's RS232 ports, and one or more RISCO Group Access Control cards located on a single loop.

Each computer, running the MaxiBGTK, may be equipped with one or many PC-RS232 interfaces, depending on the number of RS232 ports available on the PC and the number of A/C loops installed. Each additional PC-RS232 connected to the MaxiBGTK PC, creates an additional loop, thus, extending the total number of devices managed by the MaxiTalk.

ACIPCS23200A PC-RS232 Interface

TCP/IP Digi 10/100 R7 Interface

The TCP/IP Digi is a plug-in module of the R7; it enables communication between the R7 and MaxiBGTK application over the TCP/IP network. When using the TCP/IP Digi on the R7, it serves as a gateway for all RISCO Group's Access Control modules, connected on the R7 loop. This device can also be used with the KF-LIFT and KF-24/24 Input/Ouptut controllers.

ACIPR7DIGINA TCP/IP Digi 10/100 R7 Interface

TCP/IP Lantronix R7 Interface

The TCP/IP Lantronix is an add-on module to the R7; it enables communication between the R7 and MaxiBGTK application over the TCP/IP network. When using the TCP/IP Lantronix on the R7, it serves as a gateway for all RISCO Group's Access Control modules, connected on the R7 loop. This device can also be used with the KF-LIFT and KF-24/24 Input/Ouptut controllers.

ACIPR7LANINA TCP/IP Lantronix R7 Interface

Dispatcher

The Dispatcher is a connection hub for 8 Access Control current loops. Each loop can be comprised of one or more controllers. The dispatcher is an active element amplifying the signal to ensure maximum distance between controllers; it is ideally suited for star configuration cabling.

The Dispatcher enables controller loops to be brought into use or taken out of service in a simple manner. The Dispatcher is recommended for all installations with more than 4 controllers, as it eases the installation and maintenance of multiple controller installations. Several Dispatchers can be linked together in order to manage a larger number of loops.

ACD8B2A0000A Dispatcher







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