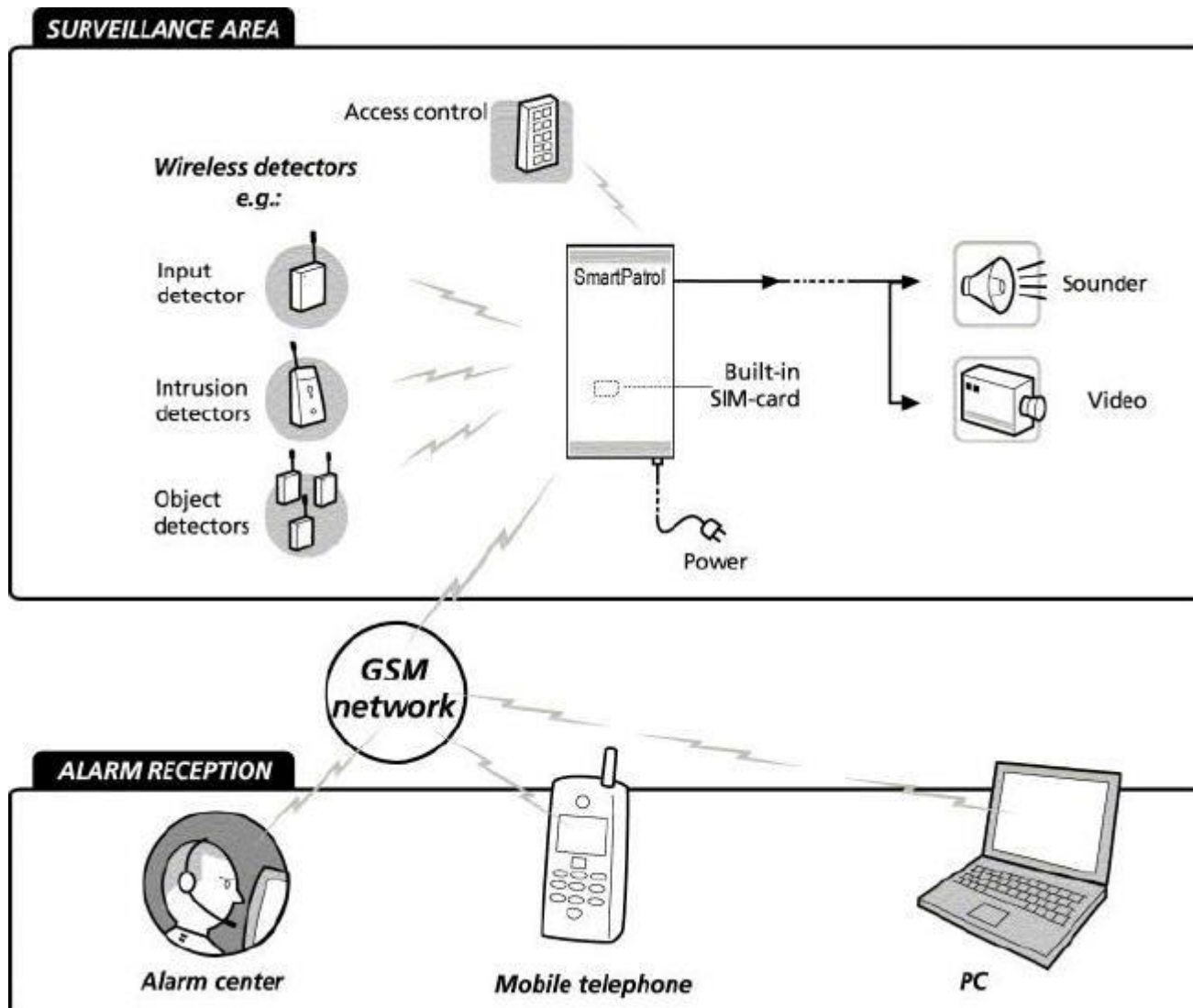# Smart Patrol

SmartPatrol is a GSM enabled security and monitoring system. It accepts a wide variety of sensor technologies (range upto 100m and upto 60 wire free sensors) plus 8 wired in sensors. The Control Box is pre-programmed to give each sensor a name and group them into 8 zones. 8 output relays correspond to each zone. In addition other communication is available using the GSM modem. In alarm the system can call a particular number or send SMS messages. (It can even communicate through pager systems). Once programmed, SmartPatrol system operates stand alone. After an alarm it can auto reset. It can be pre-programmed remotely as well as having the facility to switch the output relays on/off remotely. Extend the range using the SmartPatrol repeater unit.

Typical Applications of SmartPatrol

- Support the on site patrols on a large building site. Communicating any alarm signals directly to the guards.
- Provide security to a car showroom (especially with vehicles on the forecourt). Any break-in into one of the cars would be communicated directly to a monitoring station.
- Panic button system (wire free) for a doctors surgery, school or other public building
- Support a mobile patrol or key holding service
- Object protection in a stately home, castle, cathedral or small museum
- (Remote) monitoring of a CCTV system use SmartPatrol to trigger camera presets.
- Farm security. Power SmartPatrol with a car battery with appropriate sensors around the vehicles and barns
- Used at Prestigious Garden Centre to protect Bonsai display.

Product Specification

1.SmartPatrol™ detectors

The detector most frequently used (seismic) is a little "box" measuring 35 x 54 x 15 mm (W, L,H). The detector is battery driven (life upto five years). It is easy to install. It can be placed behind the frame of door, window, on a vehicle or somewhere it would be hidden from sight. If the object is touched or moved, the detector will send a wireless signal to the control unit. The system is extremely flexible. Once the Control Box is installed, the "boxes" can be moved around as one wishes.

Sensor variety - SmartPatrol protection offers many possibilities. It can for example handle numerous types of detectors:

(movement sensors)

Magnetic detectors (contact sensors), Infra-red detectors (short range and PIR), Ultrasound detectors, Relay inputs and remote control, Proximity detectors, Panic/Attack alarms, Flood early warning, Humidity, Temperature & InfraRed Beam (Internal or External).

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2. System description, SmartPatrol™

On alarm from 1 sensor, SmartPatrol can activate numerous outputs: SMS messages to mobile phones, PCs or a control centre. Output to sounder and video camera. Output to other alarm systems

The system is self contained and once set up from an ordinary PC (either using the serial port or remotely using SMS messages through a mobile phone or GSM calls with DTMF tones) or emails plus control of the 8 output relays runs continuously. A simple software interface on a PC offers the possibility for setting up the entire system, including each detector. Then the PC can be moved away and the system runs on its own. The control box contains its own aerial to receive signals from the detectors. As an option it can also contain a GSM modem and aerial.

SmartPatrol Control Box (uses 12v or mains power supply)

3. SmartPatrol - Specifications,
Number of detectors   max. 42* (868MHz) per system:
Number of inputs; max 8 hardwired into the system (optocouplers)
Number of Output relays   max. 8 (NC or NO) interfaces:
Relay Specifications: Max Volt: 125Vac,125Vdc .5A Max current 2A at 30Vdc Max pwr 62.5VA, 60W
Set Up software: Windows XP or later, 128 Mb RAM, 800x600 screen, 1 free COM-port
Range outside: max. 300 m between sensor and ControlBox
Range indoors: max. 75 m between detector and alarm receiver:
Power supply to the system: 12V DC
Power supply to sensors: All battery driven
Dimensions: (length x width x height);   weight
Control unit: 220x110x47 mm   1 kg
Sensor (seismic)   79x 39x 9 mm   25 g
Option: For wider coverage Repeater unit available
Price: SmartPatrol systems need to be quoted for as individual systems.
Prices start from around £1,500 plus VAT.

User Instructions - SmartPatrol

Control Box: Connect the control box to a 12v power source. Mount the control box by screwing it to the wall. It should be mounted vertically, with a height of minimum 2 m. The higher it's placed, the longer range to the detectors/sensors. Make sure that the unit is not hidden behind metal or re-enforced concrete, as this reduces dramatically the distance. The control box should be placed equal distance between the furthest sensors. If the receiving conditions are not good enough, then it could be necessary to place a second receiving box in the room. Contact Euronova for details on programming.
SMS module (extension possibilities): The SmartPatrol system is normally supplemented with a GSM modem. When an alarm is received, the alarm is send via SMS messages, for example, to a mobile phone. The GSM unit is installed in the factory when ordered. To insert a SIM card, press the minute yellow button and a small tray pops out. Check that the GSM modem has connection to the GSM network via the SmartPatrol PC program.

UPS (Uninterrupted Power Supply): SmartPatrol can be connected to an UPS power controller. With an UPS power controller the system will function a number of minutes after a power failure.

Back Up battery: A rechargeable back up battery is available as an option. On power loss the battery enables the system to send the SMS text messages that the power is down.

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Hints and Tips

- If you are concerned with one or two sensors being out of range switch SmartPatrol onto "sensors supervision" and if they are out of range you will get a text message.
- To extend the range covered use the SmartPatrol repeater unit.
- Chose the sensors appropriate for the job you require. Contact Euronova if you are unsure.
- The software set-up can be done by Euronova. You just monitor the alarm calls and request Euronova to make programming changes