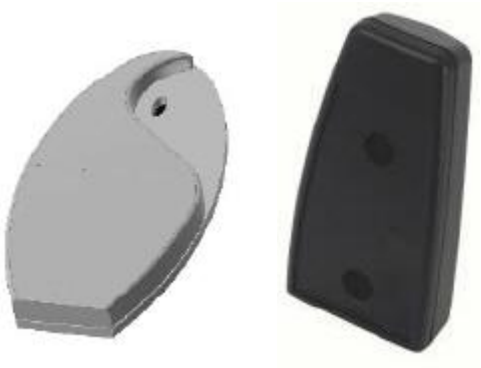
Gallery Master

GalleryMaster™ : A complete, integrated system to minimise risk of theft and damage to valuable works of art and artefacts whether on display or in store. Designed for medium to large museums, galleries and palaces where it is desired to have a manned or part manned security control room or reception area. GalleryMaster™ can enhance object protection and invigilator productivity during display hours as well as providing an extra layer of security at night. The system utilises a variety of sensor technologies (indoor range upto 75m and upto 6,400 wire free sensors). The sensors should be selected for the appropriate technology/performance to protect a specific item e.g. paining, vase, sculpture, display case or fabric. Battery lifetimes can be up to 5 years. The sensors send out OK and alarm signals wire free and encrypted for added security. Each sensor has an unique ID. Signals picked up by wire free repeaters and / or hardwired receiver units.

NOW: Wire free signal repeaters plus environmental monitoring capability.



GalleryMaster works with a wide variety of sensor technologies

The PC Software is extremely easy to use

The first installation in 1999 at the Royal Palace in Denmark

The GalleryMaster™ system utilizes receivers and repeaters normally spaced every 75 to 100m through the museum. Receivers are simply wired in a long line (the cable carries the power as well as the communications) back to the PC. Repeaters are separately powered (7 - 24vdc) and allow wire free communication in areas which are difficult to cable. The Interface (Control) box is normally be located in the security control room or on the reception desk. The software runs on a PC or network (windows platform) and allows the security manager (password controlled) to designate a name and location to each sensor. On alarm this information immediately appears on the PC screen. Also communicated are sensor signal faults (low battery), jamming and sensor and receiver signal strength.

In addition output relays can be added (max 640) and can be configured to correspond to a sensor, location or group of sensors. These have been used to link to sounders or CCTV cameras. In addition communication is available using a (RS232) serial interface to pagers and CCTV and there is also a GSM modem option for SMS and emails. It is good practice to investigate each alarm and the system can be reset once the control room enter in a comment.

GalleryMaster™ gives your collection ultimate daytime security with....

- A range of wire free sensors each uniquely identifiable (range upto 100m)
- Long battery life (3 yrs +), also panic buttons and remote control units
- ATS option: Anti-touch (proximity) detection of the highest quality
- Receivers which drive audible alarms in the gallery (also relay output)
- Repeaters to pass on signals in areas difficult to cable
- Wired back (through existing cables possible) to the PC Interface box
- Each sensor on alarm will be displayed on a PC screen with alarm status
- Security manager programmes in the desired response to close relay outputs, send pager and CCTV instructions.
- Security level password controlled, warnings against jamming, cable cutting and weak/no signal.

Clock protected by ShockSensor

- Typical applications
- Specification & Price
- User Instructions
- Hints and tips
- Case Studies - Royal Palace & National Museums
- Related Article - Science Museum London
- Related Product - GalleryMonitor

Typical Applications of GalleryMaster™

- The object protection in an entire museum protecting hundreds even thousands of exhibits
- The protection of 2 or 3 galleries with particularly valuable exhibits
- A simple system to protect temporary exhibitions within a larger museum
- An additional security system for a large "security sensitive" complex like an airport, conference centre or government building

GalleryMaster™ hardware and software:

Four Software licence levels: 0 -10 detectors, 11 - 50 detectors, >50 detectors, > 500 detectors

Alarm receiver unit	PC and PC Interface unit	Relay Interface unit	Alarm repeater unit
no. max. 32 (can be increased). Contains 1 output relay	Min. spec.: Windows XP, 256 Mbyte RAM, 800x600 screen, 1 free COM-port (2 if link to CCTV)	8 output relays / unit (std) with NO and NC options. 1 input relay per unit	To pass on alarm and OK signals from many sensors. Contains 1 output relay.
Distance from the receiver PC Interface to final receiver max. 1,500 m	Power supply to the system: 230 - 240 VAC/0.5A	Number of relays on the system max. 640 relays	Range 100 to 150m Powered: 7vdc - 24vdc
Dimensions:200x115x30mm Weight: 0.3 kg	PC Interface: 260x160x65 mm 1 kg	Relay box: 200x115x30 mm 0.7 kg	Size: 150x120x45mm Weight: 0.25kg

GalleryMaster™ detectors/sensors

The most popular detector is triggered either by vibration. It measures just 35mm x 54mm x 15mm. It is battery driven (lifetime upto five years). It is easy to install. It can be placed behind the frame of a painting, in or under a vase, in a display case or somewhere it would be hidden from sight. If the exhibit is touched or moved, the detector will send a wireless signal to the Receiver. The sensitivity is individually adjustable for each sensor so you may desire that 2 signals will result in an alarm response for example. The system is extremely flexible, the sensors can be renamed or switched on and off individually.

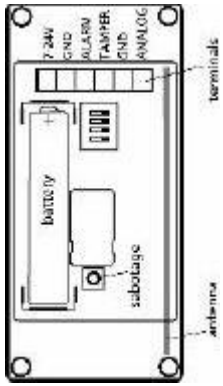
The ShockSensor is adjustable sensitivity (another option can also be triggered by a magnet).

The UltraSound Sensor is for enclosed spaces like Display Cases and small rooms

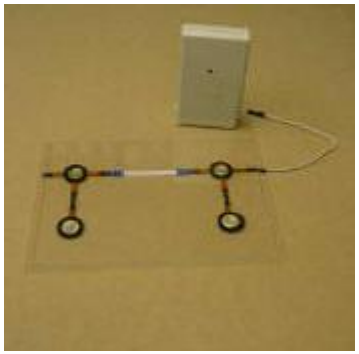
The Non Contact (InfraRed) Sensor does not need to make contact with the exhibit to be effective

The personal/attack alarm offers two modes of signalling

ATS AntiTouch sensors can integrate with GalleryMaster or stand alone



Transmitter can be used to link many different technology Sensors to GalleryMaster



WeightSense differential weight sensors will integrate with GalleryMaster or stand alone

GalleryMaster also includes a wire free PIR sensor (battery life 3 years)

Other sensors include Flood Early Warning, InfraRed Beam (Internal and External), BarrierPIR, Temperature and humidity probes.
For more detail on the GalleryMaster Sensors Click here

Detector dimensions: Shock and InfraRed: 79 x 39 x 9 mm wt. 25 g
Range (inside) between detector and alarm receiver: Shock & InfraRed 50m.
Battery Life: Shock & Magnet 3 - 5 years, Non Contact 18 - 24 months, PIR 3 years, UltraSound 6-9 months (extension to 3 years available), ATS 18 months, 12v adaptor available, WeightSense 1 -2 years

More details on individual sensor performance is available after contact with Euronova. Other sensors can be considered e.g. humidity alarms, water sensors etc

Installation:
Hardware:
Euronova would be happy to quote for installation but we have found most museums prefer to use their regular alarm or electrical installer. We then ensure the installer is well trained and provide telephone (or physical) help and assistance. The main job is the cabling installation and the connection to the mains power supply or UPS.

Sensor installation:
This is often done by the security manager, curators or assistant and will take some time on a big site.

Software installation:
Euronova provide this. We give one to one training to the different user levels and 7 day a week telephone support.

Cables:
Network cable: PC Interface to receivers (2 lines): twisted pairs 2x2 min 24AWG (100ohm/km or less for long runs)

An installation with a very large network puts extra demands on the power requirements to each alarm receiver and especially if the power is to drive any relays, buzzers or lights. Considerations have to be made for DC voltage loss over long distances. The DC power commences at 24v from the PC Interface output. . The voltage drop can be calculated from the current consumption of each receiver (40mA) and the cable length. It can be expected to drop to 15v after 400m of twisted pair cable with 5 receivers equally spaced and can be expected to drop to 12v after 1.5km of cable with 1 receiver at the end (receivers need 7v minimum to function) If a long line is needed then a cable with less resistance per 1km is required. This can be done with twisted pair (4*2 cable which is standard networking cable using 3 of the 4 pairs to provide power along the line – effective resistance is 33 ohm/km).

Utilisation of an existing computer (LAN) network is possible. Either for remote monitoring and control (at a different PC) or to connect a line of receivers to the PC via PC Interface. IP connections are possible. Contact Euronova for more details.

Extension/communication possibilities....

Pagers/communicators: via the second serial or a converted USB port this can be linked to a Serial Interface which will then communicate alarm messages to appropriate guards. Different "zones" can be created to control the messaging.
Relay Interfaces: Clean contact relays NO/NC can be purchased in blocks of 8 and these can be controlled from the software to give excellent links to CCTV or Access Control systems.

GalleryMaster is now available with "Viewer" software to view the alarm status and history from any PC on the network.

CCTV camera presets are controlled using either relays (contacts) or the RS232 output.

GSM module: The GalleryMaster system is often 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 network via the GalleryMaster software.

Pricing: Systems are completely variable but a "starting price" for GalleryMaster would be approx £8,000 + VAT and delivery. The system has a 1 year warranty.