

GS 600/700 Series

Shock Sensors

- **Reliable 24 hour loop perimeter protection**
- **Superior technology provides excellent detection and false alarm immunity**
- **Adjustable Sensitivity for fine tuning installations**
- **Suitable for all types of solid structures**
- **Versatile mounting through 360° axis**
- **24 carat gold plated internal mechanics for optimum performance & long life**
- **Comprehensive range**

**24 hours perimeter protection**

Aritech offers a full range of proven shock sensors which provide reliable perimeter protection 24 hours a day. A break-in is detected as soon as the intruder attempts to force, smash, drill, or even saw the protected window, frame or door, which means the alarm is activated whilst the intruder is still outside. This minimises damage to the building and maximises personal security, since shock sensors can be armed 24 hours a day, allowing unrestricted movement throughout protected premises.

Superior detection

Its unique design enables it to discriminate between a real break in attempt and everyday background noises by measuring the shock frequency caused by the displacement in the protected structure.

The sensor is designed to activate (contact will open) when an acceleration greater than 1G is detected. This could be caused, for example by a strong blow, a high speed drill or sawing because the frequencies of these shocks fall within the sensor's range of detection.

Excellent false alarm Immunity

Vibrations caused by traffic, rain or wind will not cause the sensor contact to open because a specially designed damping

cylinder inside the sensor head absorbs the energy of these minor shocks, therefore preventing false alarms.

Background vibrations tend to have very high or very low frequency levels which cannot reproduce an acceleration greater than 1G without causing significant structural damage. For example, at a frequency of 4 Hz, which could be a lorry passing by, an acceleration of 1G would result in a structural displacement of 10 cm, which equates to earthquake conditions.

Adjustable Sensitivity

The Shock Sensor series can be connected directly to control panels (CS 350, CD 34, CD 61, CD 72) which have zones with incorporated analysing facilities or can be used in conjunction with dedicated analyser boards (GS 614/GS 615).

In both cases, the analysing capability has two separate detection criteria; gross attack and pulse count. The gross attack threshold is designed to react to a single blow, whilst pulse count alarms when a pre-selected number of smaller shocks, occurring within a 30 second timing interval, is reached. This ensures detection not only of a simple strike, hard enough to penetrate the structure but also of repeated tampering attacks.

Moreover, both detection levels can be adjusted so that the installation can be fine tuned to the environment and fully tested using the walk test facility. This digital signal processing is designed to eliminate false alarms and assure reliable detection of all types of attack.

Wide Range of Applications

All models can be mounted on any solid structure through which an attempted break-in is likely to occur, including: metal, concrete, brickwork, glass and wood. This embraces a whole host of applications ranging from protection of windows, doors, roofs, skylights, walls, display cabinets and many more.

Quality Manufacturing

The critical sensing device is manufactured in a dust-free environment to avoid contamination, therefore ensuring optimum performance and a long life. These components are individually tested and ultrasonically welded to provide maximum protection against corrosion.

Comprehensive Range

With a full line of shock sensors, including stand-alone versions and models with optional magnetic contact, we can provide a product for every application need.

Shock sensors



GS 610/611 & GS 612/613 Shock sensors

The GS 610 & GS 612 shock sensors offer a versatile solution for detection of forced entry through windows, doors, walls and roofs. They can be mounted throughout a 360° axis, vertically and horizontally, by ensuring that the Aritech logo is readable from left to right.

Both models have optional magnetic contacts for double protection on opening doors and windows.



GS 614 & GS 615 Analysers

These simple multi-count analysers provide a sensitivity setting for both gross attack and programmable pulse count, between 1 and 9 counts. Both models include on-board voltage regulation and LED indication for test and alarm indication.

The GS 615 offers end-of-line resistor and a manual reset facility.

Up to 12 shock sensors can be connected to one analyser (IS 199 standard).



GS 620 Stand-Alone Shock Sensor

The GS 620 is a latching and LED indicating stand-alone version of the GS 610 which includes adjustable gross attack and pulse count sensitivity. It also features first to the alarm and subsequent to alarm LED indication and provides a selectable walk-test facility.

How to choose the right shock sensor

Model	Range site	Mounting indication	LED indication	Reed	Colour (L x W x H)	Dimensions (mm)
GS 610	Up to 6 metres depending on surface	Glass, frame wall or roof	NO	GS 611	White/brown	72 x 27 x 21
GS 612	Up to 6 metres depending on surface	Glass, frame wall or roof	NO	GS 613	White/brown	70 x 30 x 28
GS 710	Up to 6 metres depending on surface	Glass, frame wall or roof	NO	GS 711	White/brown	72 x 27 x 25
GS 620N	Up to 6 metres depending on surface	Glass, frame wall or roof	YES	NO	White/brown	93 x 30 x 25

Technical Data

	GS 610/611	GS 612/613	GS 710/711	GS 614/615	GS 620 N
Supply voltage	-	-	-	10-15 V dc	8-15 V dc
Current Consumption					
Quiescent	-	-	-	10 mA	8 mA
Alarm	-	-	-	50 mA	2.5 mA (led off)
Temperature range	-40° to +50° C	-40° to +50° C	-40° to +50° C	-40° to +50° C	-20° to +50° C
Alarm contact rating	-	-	-	1 A - 12 V dc	0.1 A - 28 V dc
Tamper	-	-	-	-	0.1 A - 28 V dc

that count !



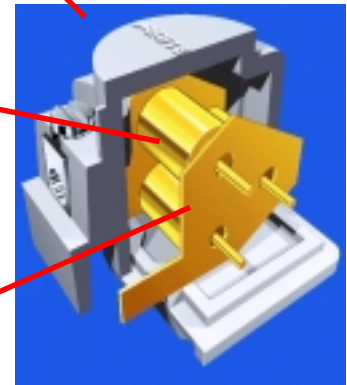
GS 710 Shock Sensor

Based on proven technology, the GS 710 has been developed to offer an aesthetically superior low profile design with extra features to ease installation.

Ultrasonically welded inertia head for maximum protection against corrosion

Damping cylinder absorbs low frequency vibrations

Gold plated components ensure maximum contact and minimum resistance

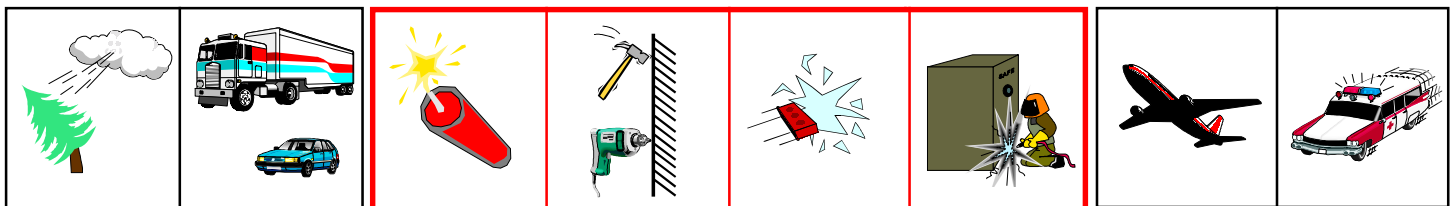
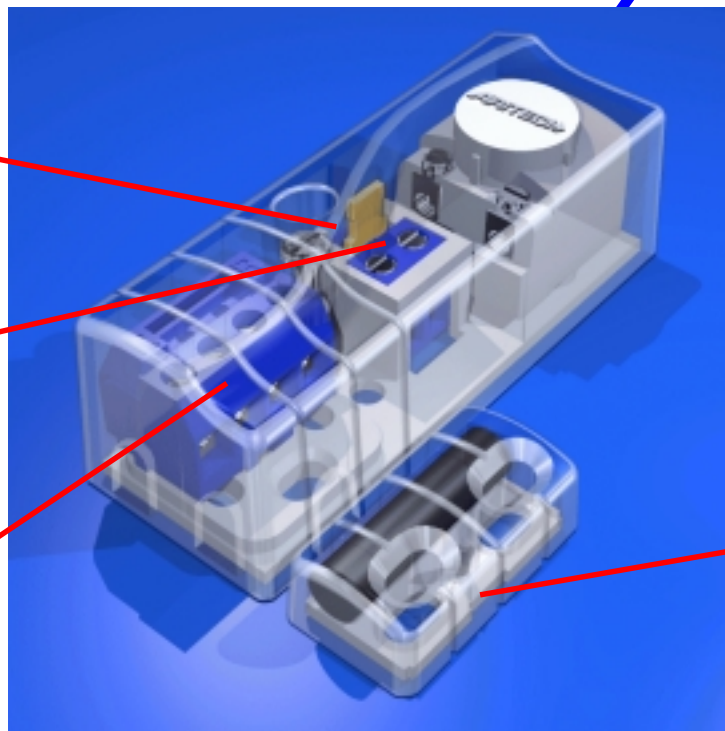


High quality electrical tamper

Two spare terminals facilitate wiring

Multi-position terminal block

Optional magnetic contact version



Low frequency background vibrations are ignored

← **Detection Range of Shock Sensors** →

Very high frequency noises are ignored

The Complete Package

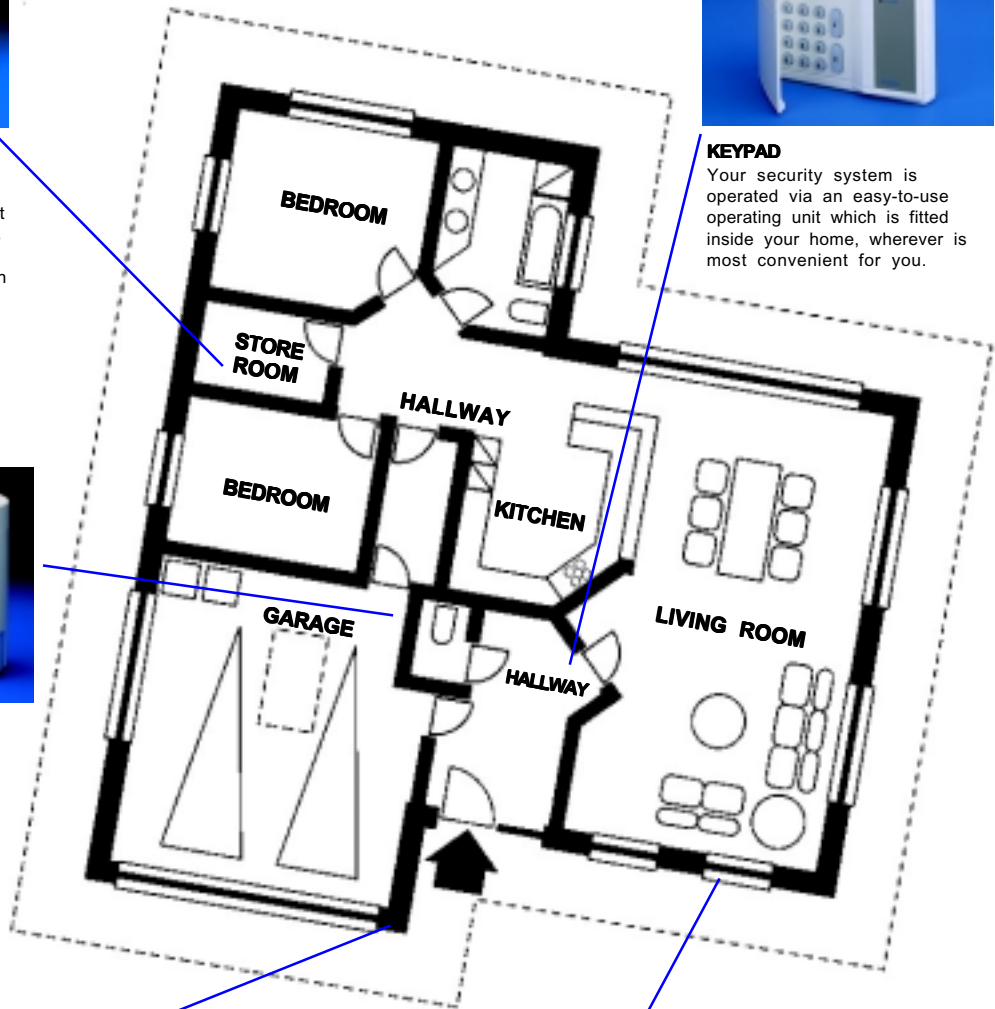


CONTROL PANEL

Once it is installed, you no longer need to worry about your alarm control unit. It is fitted out of sight in your storeroom or cellar. This is the brain of your security system and it transforms the signals given by the sensors into alarms.

KEYPAD

Your security system is operated via an easy-to-use operating unit which is fitted inside your home, wherever is most convenient for you.



MOVEMENT SENSORS

Fitted at strategically important points in your home, these sensors detect burglars by their movement.



SIRENS

You will need a siren to warn an attempted break-in or a fire. You can choose between an unobtrusive indoor siren or a clearly visible outdoor siren which will let potential burglars know that you have a security system.



SHOCK SENSORS

Small sensors are attached unobtrusively to your doors and windows frames, in order to set off the alarm in the event of an attempted break-in.

CE The GS 600/700 series complies with the essential requirements of the EMC directive 89/336/EMC

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