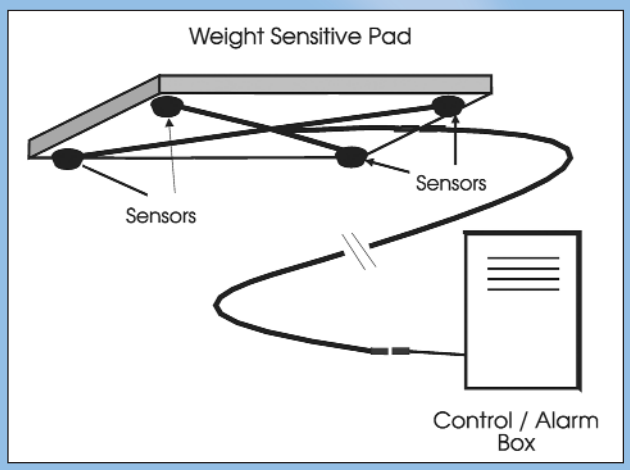
Xtra-Sense Pad Alarm Systems

Pad systems are extremely flexible security products for protecting single and multiple objects. Easily set up and moved, they are ideal where mobility is important.

Systems comprise a pad(s) fitted only with ***Xtra-Sense*** sensors, and a control or alarm box fitted with the ***Xtra-Sense*** electronics, batteries, and siren or other alarm signal device. To set up and operate a system the modules are linked with a simple cable that plugs into both modules.

Applications include museum and retail displays, exhibitions, and fairs.

Pads are typically manufactured from medium density fibreboard (MDF), but can also be manufactured in wood and other materials, as required. They can be supplied to your requirements of size and finish, subject to the minimum dimensions required to fit the sensors. Finishes can include painting, upholstery, and laminate or foil facing.



Key Advantages of Pad Systems:

- Highly adaptable and flexible. More than one pad can be linked to a single alarm box.
- Pads can be manufactured to less than 10mm in depth, and down to 50mm diameter or 50mm x 50mm.
- Pads can be linked into Kit systems
- Two models of control system are available, offering more system options (see over).

The Alarm Signal

Standard units incorporate a simple audible buzzer or alarm. Low intensity buzzers provide a local warning to staff, without creating an intrusive or uncomfortable sound level. Where a penetrating alarm siren is required, a loud two tone siren is fitted.

Alarm Sensitivity

System sensitivity is defined as the minimum weight change required to trigger an alarm:

- Standard systems are rated at 60g - 80g.
- High sensitivity systems are rated down to 35g - 45g.

Customised systems with either higher or lower sensitivities can be supplied if required.

Control System Options

Two control system options are available depending upon the system application. Both can be supplied in standard, or high sensitivity settings.

One Star Model

The basic One Star model provides the following features (see Control Box datasheet for more details):

- Single alarm mode.
- Sensitivity – normally factory pre-set.
- Audible alarm – fitted with a single tone buzzer and multi-tone siren.
- Alarm signal duration – adjustable up to a pre-set maximum.
- Factory pre-set option for either a semi-conductoror relay output to trigger external third party devices, such as main alarm panels and radio transmitter devices.

Two Star Model

The Two Star model provides two alarm modes, and greater flexibility for users to select and change settings (see Control Box datasheet for more details):

- Dual alarm modes e.g. day mode and night mode.
- Sensitivity – factory pre-set for both alarm modes.
- Audible Alarm – different buzzers or sirens can be selected for each mode of operation. For example day mode could be a low intensity buzzer, and night mode a loud two tone siren.
- Alarm signal duration – factory pre-set for one alarm mode. Five user selectable durations for the second alarm mode, including the option to trigger the alarm continuously until reset manually i.e. no automatic reset.
- User selectable option to trigger an alarm when an item is both lifted off and placed onto the pad(s) (standard setting), or alternatively to trigger only when an item is either lifted off, or placed onto the pad(s).
- User selectable option for both a semiconductor and relay output facility to activate external or third party systems such as main alarm panels and radio transmitter devices. Outputs operate in one alarm mode only.

Battery Life (Battery Powered Units)

With no activations, battery life is approximately 60 months - One Star unit, and 24 months - Two Star unit. A small number of daily activations of short duration will not reduce the battery life significantly.

Pad Weight Carrying Capacity

The maximum weight that a pad can carry is determined by the capacity of the ***Xtra-Sense*** load sensors, and the distribution of weight carried by them. The following table provides a guide.

Pad Sensitivity	*Maximum Allowed Loading Per Sensor*	*Maximum Allowed Loading On A Typical Four Sensor (Weight Distributed Evenly)*
Standard	4kg (9lb)	16kg (36lb)
High	3kg (6.5lb)	11kg (24lb)

Up to 75% of the maximum load level, sensitivity remains constant. Above this loading level the sensitivity declines slowly. Sensors loaded above their maximum level may become damaged.

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