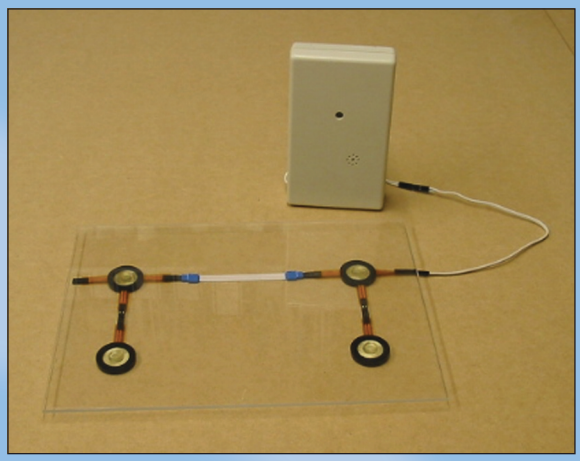
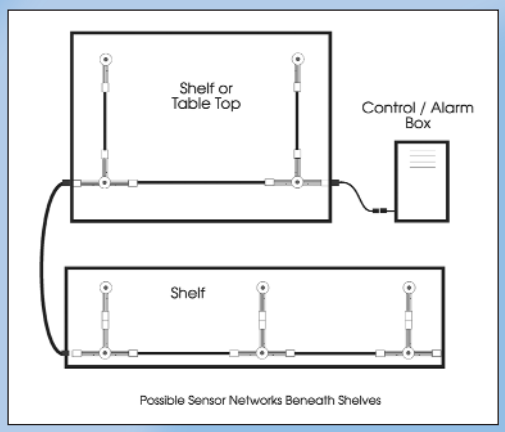
Xtra-Sense Kit Alarm Systems

Kit systems are the most flexible of the ***Xtra-Sense*** range of products. They can be fitted to many types of display, and are easily set up, dismantled, and modified.

Kits comprise various types of ***Xtra-Sense*** sensors; a control or alarm box fitted with the ***Xtra-Sense*** electronics, batteries, and siren (or other alarm signal device); and cabling to link the sensors to the control / alarm box. All elements simply plug together.





Possible Sensor Networks Beneath Shelves

The sensors can be linked together into a variety of networks, and inserted beneath a shelf, panel, or other surface on which items are to be displayed. The sensors are inserted so as to fully support the weight of the display surface and the objects on it. The display surface can be of any stiff material, such as wood, glass, MDF, steel etc.

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

Key Advantages of Kit Systems:

- Cost effective option for alarming large display areas, with multiple sensors linked to one control/alarm box
- Highly adaptable and flexible. Sensor networks can be constructed to support a wide a variety of display surface sizes and shapes - shelves, table tops, display cabinets etc.
- Easy to set up and simple to change. Kits can be expanded as required.
- 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.

In addition to the standard audible output signals, other devices that can be incorporated as special options include lights, LEDs, and wireless transmitters to external alarms, pagers etc.

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-conductor or 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 sensors (standard setting), or alternatively to trigger only when an item is either lifted off, or placed onto the sensors.
- 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, or 24 months - Two Star unit. A small number of daily activations of short duration will not reduce the battery life significantly.

Display Surface Weight Carrying Capacity

The maximum weight that a display surface 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.

System Sensitivity	*Maximum Allowed Loading Per Sensor*	*Maximum Allowed Loading On A Surface Supported By 4 Sensors (Weight Distributed Evenly)*
Standard	4kg (9lb)	16kg (36lb) including weight of the surface
High	3kg (6.5lb)	11kg (24lb) including weight of the surface

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.

Xtra-Sense Ltd 2 Devonshire Court Heathpark Honiton Devon EX14 1SB
Tel: 01404 43366 Fax: 01404 41455 email: security@xtra-sense.co.uk www.xtra-sense.co.uk