

# Merlin Trio Help Call Alarm System

The **Merlin Trio** Help Call system offers an innovative and highly flexible means of calling for help in a building. It is ideal for use as a panic alarm, or as a simple means of requesting assistance. It can also be applied to identify or track the location of personnel.

The principal components of this wireless system simply plug into standard three-pin plug points.



The request for help signal is transmitted through the fixed mains-power wiring from one location to another within the building using a powerful and reliable proprietary data transmission technology.

Typical applications include lone workers in offices, banks, schools and colleges, hospitals, nursing homes, industrial and commercial premises, and residential properties. The system is especially suited to sites where wireless radio based signalling systems are unreliable or limited.

## Key Benefits and Features

- Highly portable and easy to set up - the signal transmitting and receiving units simply plug into a standard mains power point
- No new wiring and expensive installation is required
- Long range signalling - signalling can be achieved throughout a large building or complex which is fed by the same main power feed cable, and the range is not affected by the factors that limit radio signals e.g. walls
- Identifies the location of the alarm (all models)
- Identifies who triggered the alarm (Level 2 model)
- Single action button for standard call
- Dual action button option for high priority call
- Audible alert of a call – differentiates between standard and high priority calls
- Option for relay output
- Reliable signalling - the mains-power wiring provides an extremely reliable wired communication network.
- Upgradable to include additional features

### Key Fob Trigger

The Key Fob Trigger is a small radio transmitter unit carried by personnel, which is used to initiate the request for help. This unit sends a trigger signal out to the Transponder unit in the vicinity. Key fobs are short range devices, which will typically work up to 10 – 20m in buildings, depending upon local conditions, and up to 100m in free space.



There are a maximum of 15 fob identities.

The standard systems are supplied with single button fobs, where all calls are handled in an identical manner by the system. Optional two button fobs offer the facility to send both standard calls and high priority calls.



### Transponder

Transponder units are programmed to react to signals from specified fob identities, provided the Transponder is within the signalling range of the fob. Transponders can be programmed to respond to up to all 15 fob identities.

When triggered, the Transponder beeps to acknowledge receipt of the call, and sends its own coded signal into the mains wiring.

### Level 1 Merlin Trio System

The Transponder signal includes the identity code of the Transponder sending the signal. This identity is made up of a two digit Location number between 1 and 99 and the option to include a two digit Zone number between 0 and 15. The Zone number could, for example, be a floor number on a multi-storey building.

The Level 1 system identifies only the location of the triggering signal, as defined by the Transponder location.

### Level 2 Merlin Trio System

The Transponder signal includes the identity code of the Transponder as defined only by its two digit Location number, between 1 and 99, and also the two digit identity number, between 1 and 15, of the Fob that triggered the Transponder signal.

The Level 2 system is able to identify both the identity of the person initiating the alarm and their location, as defined by the Fob identity and Transponder location.

### Display Receiver

The Receiver unit monitors the mains wiring for coded signals from any Transponders. When a signal is detected, the Receiver is triggered to decode the signal and indicate the identity numbers sent out by the signalling Transponder.

For a Level 1 system that will be the Transponder Zone and Location numbers.

For a Level 2 system that will be the Fob identity number and the Transponder Location number.



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