



Locate. React. Protect.

Quicker response with device-locating personal alarm solutions.



Response times are obviously critical when optimizing the protection of lone workers. That's why lone worker alarm devices are evolving to support rapid and accurate locating of lone workers' mobile devices. Ascom explains what solutions are available, and how they help you help lone workers.

Protecting lone workers outdoors

Global Position System (GPS) locating technology is used outdoors. As long as the device user remains within GPS satellite coverage his or her device can be located to within five to ten meters.

Many lone worker alarm devices can automatically send their locations (expressed in GPS coordinates) to designated colleagues and/or responders. Such automatic transmissions can be triggered by a sudden tilt or fall (man-down alert), inactivity (no-movement alert), or when the device is removed from the authorized user (rip-cord alert).

Protecting lone workers indoors

Various locating technologies can be used indoors (GPS is unsuitable for indoors use). Which technology or mix of technologies is best for a specific facility depends on factors such as: budget constraints, physical layout of the facility, accuracy requirements, structural details (thickness of walls, building materials used, etc.), types of clothing worn by lone workers, and so on.



Wi-Fi locating

Basic locating of mobile devices can be achieved using Wi-Fi terminals. Enhanced accuracy and tracking capabilities can however be achieved by location triangulation using multiple terminals together with a Real-Time Locating System (RTLS). Location accuracy can be within one meter, depending on the number of terminals deployed.

DECT locating

This locating system is based on Digital Enhanced Cordless Telecommunications (DECT). Ascom DECT locating systems are available in standard and enhanced versions. In the standard version, the system identifies the DECT terminal which transmitted the mobile device's alarm. With the enhanced version, data from several DECT terminals is combined to locate the mobile device.

Infrared and/or low-frequency locating (enhanced version)

The Ascom telePROTECT and DECT systems can also integrate infrared and/or low-frequency beacons to improve locating accuracy even further.

Location by audible signal

When a lone worker device triggers an alert, an acoustic location signal (ALS) audibly identifies the device's location. The signal is always gradual: from the lowest volume to the highest.

Devices for hazardous and explosive environments

Ascom offers ATEX-certified mobile devices, which meet stringent safety standards for use in potentially explosive workplaces. For more information about our location solutions and ATEX-certified mobile devices, **contact us**.

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