



## Evacuation Alert Systems







# Contents

<b>4</b>	The EvacPro System
<b>8</b>	The EvacPro EACIE
<b>14</b>	6000 Sounder Range
<b>20</b>	Ancillaries
<b>22</b>	Power Supply





# The EvacPro System

Uncomplicated evacuation, with simple build, control, installation and maintenance



# What is the EvacPro?

The EvacPro is Protec's answer to an Evacuation Alert Control and Indicator Equipment (EACIE). Each element has been designed to meet BS 8629:2019+A1:2023. The EvacPro takes the alert and evacuation methods found in our other life safety systems and puts them into a purpose-built, vandal- and tamperproof enclosure. This ensures a robust and reliable solution to a building evacuation.

The EvacPro's simplicity ensures an uncomplicated method of evacuating a building on a floor-by-floor basis by the fire services. A purpose-built, anti-vandal enclosure houses the EvacPro panel, which offers a series of toggle switches and zone status LEDs, ensuring an easy-to-use evacuation system.

The EvacPro uses a loop configuration method to provide one or multiple evacuation zones on each floor of a high-rise building. It is available in 16, 32, and 48-floor variants for traditional high-rise buildings, with further expansion possible.

Addressable sounders, or Visual Alarm Devices (VADs), are installed in each apartment and allocated to an evacuation zone. Should an evacuation scenario occur, the EvacPro can activate the sounders across a floor. The design of the EvacPro system enables each sounder to be tested individually without creating a widespread evacuation of the building at the maintenance stage.

The EvacPro system's simplicity in build, control, installation, and maintenance predicts that it will become a popular building evacuation system for Fire Safety Officers, specifiers, and contractors alike.





# What Makes an EvacPro System?

The EvacPro is fully compatible with a wide range of Protec loop-powered and non-loop-powered (passive) devices, along with additional equipment, to make a fully comprehensive system that provides a cutting-edge solution to your evacuation needs. This includes an extensive array of advanced products, such as loop-powered alarm sounders, visual alarm devices, and interfaces designed to provide maximum efficiency and safety when evacuating a building.



## EvacPro Panel

The control panel is modular in design, supporting four digital addressable loops with up to 200\* addresses per loop and 16, 32, or 48-floor toggle switches.



## EvacPro/NET

Enables further expansion of an EvacPro system. The system links via a secure network allowing for an additional 4 Loops Per Network unit.



## 24V Power Supply

The EN54C is a self-contained power supply designed to simultaneously provide a 24V dc supply to a control panel and charge associated batteries.



## Loop Isolator

A passive system device that isolates the loop when a short circuit is detected, ensuring the rest of the evacuation system can perform its expected functions.



## 6000 MICCO

Provides the ability of third-party interfacing of an EvacPro system and is also utilised between the floor and every 20 system isolators to ensure efficient fault reporting.



## Vandal Proof Enclosure

To meet BS 8629:2019+A1:2023 regulations a vandal-proof housing is required for the EvacPro control panel. These can be obtained via third-party enclosure suppliers such as GERDA.



## Addressable Sounder

The 6000/SSR2 range is Protec's addressable loop-powered high-output electronic sounder. It utilises a piezo driver unit to enable high sound output while keeping a very low current consumption.



## Addressable VAD

Our 6000 VAD range is Protec's addressable loop-powered high-output electronic Visual Alarm Device (VAD). It utilises high-output LEDs, offering substantial light while keeping a very low current consumption.



# EvacPro Schematic



A Sounder must be present in each apartment capable of achieving 85dB(a) at the open door of each bedroom and 65dB(a) throughout the other habitable rooms.



Passive isolators are installed outside each apartment. The sounders are wired in a 'spur' configuration from these isolators. This is to protect the loop from faults within any one apartment.



The EvacPro is remotely powered by the charger, this needs to be in a secure room or anti-vandal enclosure if public facing.



The EvacPro is wired in a loop configuration to provide redundancy in the event of a fault. Enhanced fire rated cable is used throughout.



The EvacPro would be mounted in the GERDA® enclosure and located in an area designated by the local fire authority.

The Panel contains the mechanical controls to manually evacuate each floor.

\*Addressable loop isolators (MICCO) are installed after every twentieth device or at each floor division whichever is first.





# The EvacPro EACIE

High-capacity loops for evacuation of  
high-capacity accommodation blocks



# Evacuation on Demand

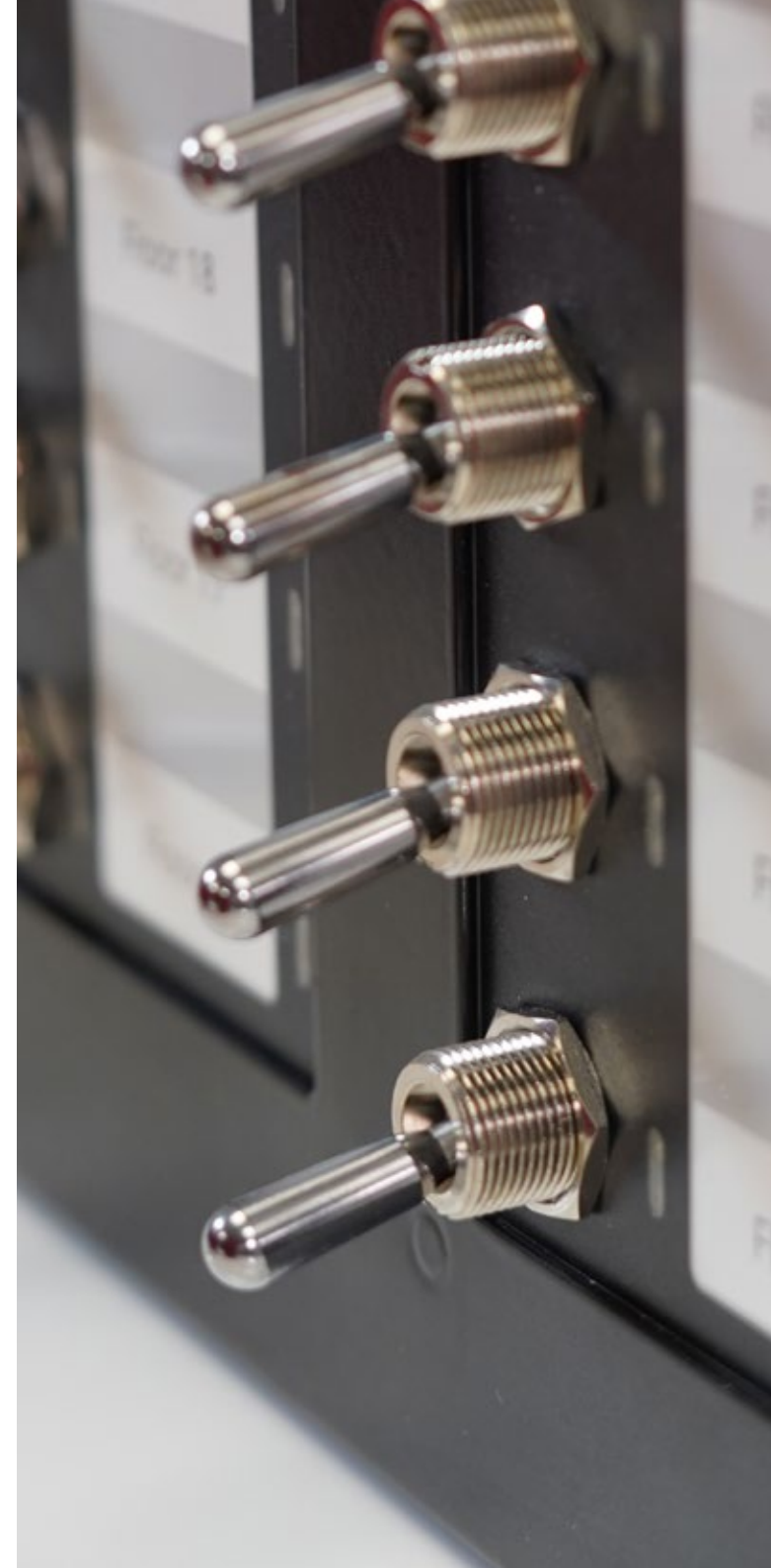
The EvacPro is Protec's state-of-the-art Evacuation Alert Control and Indicating Equipment (EACIE), meticulously designed to meet the stringent recommendations of BS 8629. Specifically crafted for Fire and Rescue Services, EvacPro provides the crucial capability to efficiently evacuate high-rise buildings during emergencies.

The modular design supports four digital addressable data loops, each accommodating up to 100 addresses. You can choose from configurations with 16, 32, or 48-zone toggle switches. For larger or more complex sites, multiple EvacPro panels can be interconnected to create a comprehensive, building-wide evacuation system.

The intuitive slide-in toggle switch labels allow for quick and clear identification of evacuation zones. Red and yellow LEDs provide immediate visual confirmation of the system's activation status, ensuring clarity and efficiency during critical moments.

Leveraging the advanced Protec 6000PLUS protocol, EvacPro supports the integration of addressable loop output devices, including 6000PLUS sounders and visual alarm devices compliant with EN54-23 standards. With on-site programmability via a standard USB port and the user-friendly Protec virtual panel software, commissioning and maintaining the system is straightforward and efficient.

The EvacPro is a reliable and secure comprehensive evacuation alert system, ensuring safety and compliance in every high-rise emergency.





# Key Features

## Individual Apartment Test

Ability to test each apartment through the virtual panel.

## Remote Battery Backup

The remote battery can keep the panel powered for 72 hours incase of a power failure.

## LED Status Indication

Easily see the status of the panel using the simple LED indicator.

## Toggle Switches

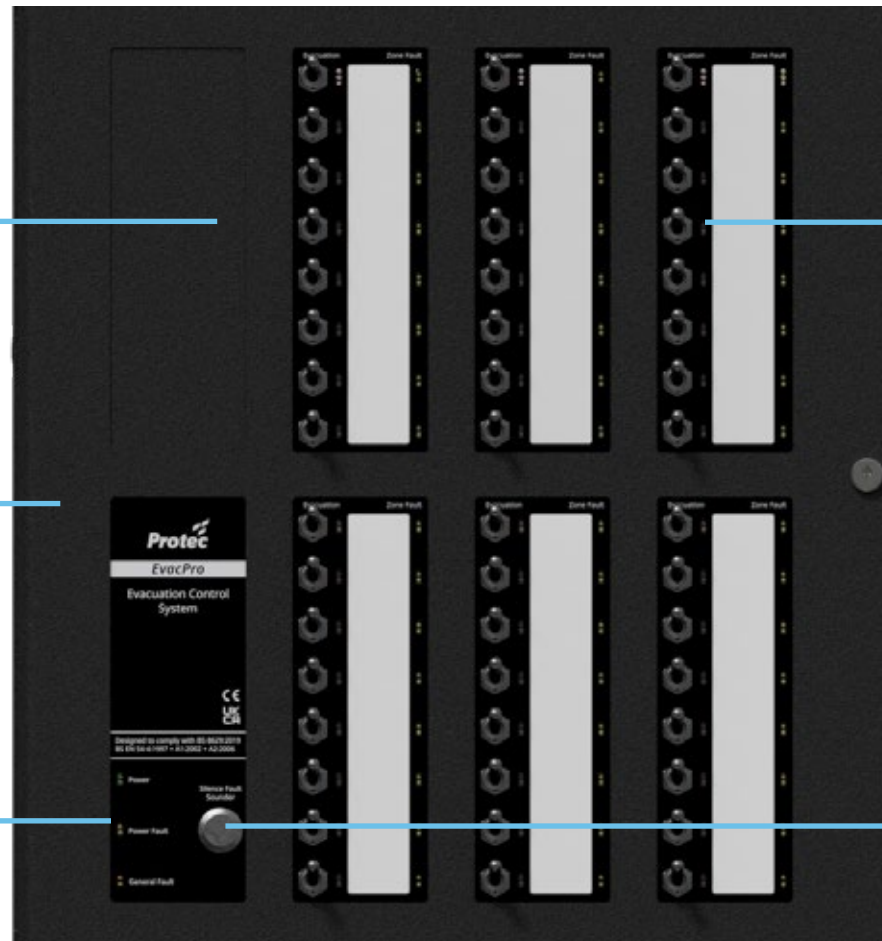
Up to 48 heavy duty toggle switches for a staged evacuation.

## USB Connection

Simple system programming through the EvacPro virtual panel.

## Silence Button

Quickly silence any sounders in fault with the press of a button.





# Key Figures

**200**

up to addresses per loop

**16, 32, 48**

floor variants

**1A**

loop load

**4**

loops per EvacPro

**1, 2, 3**

stair cores

**64**

panel network

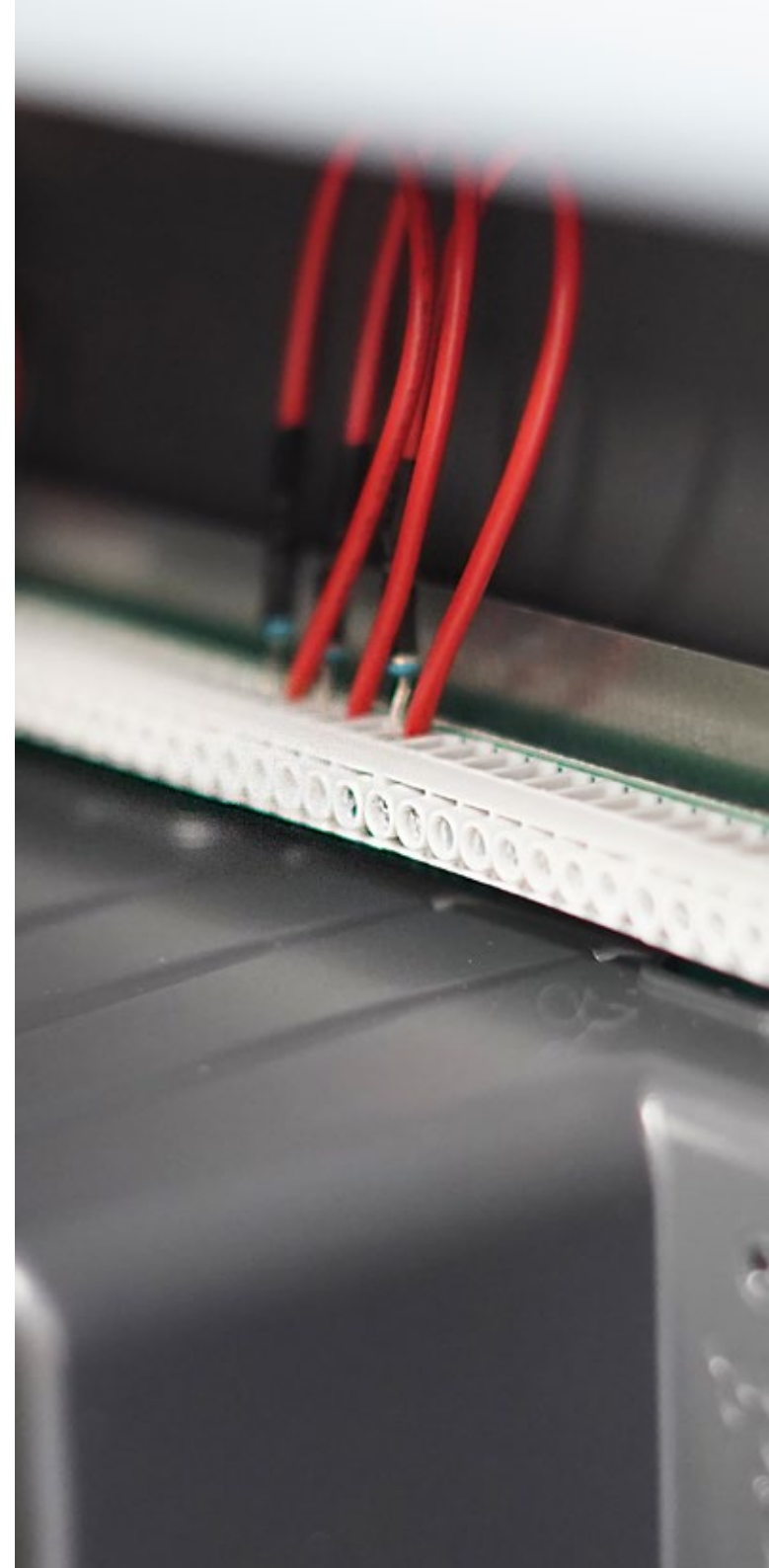


# Expanding Possibilities

Our innovative networking ensures lightning-fast data transfer while maintaining the utmost reliability. The system offers a fault-tolerant communication channel, providing peace of mind even in critical situations.

You can connect up to 64 individual EvacPro Net's onto a single network, seamlessly functioning as one unified Evacuation system. In the rare case of a network fault, the entire system won't be disabled.

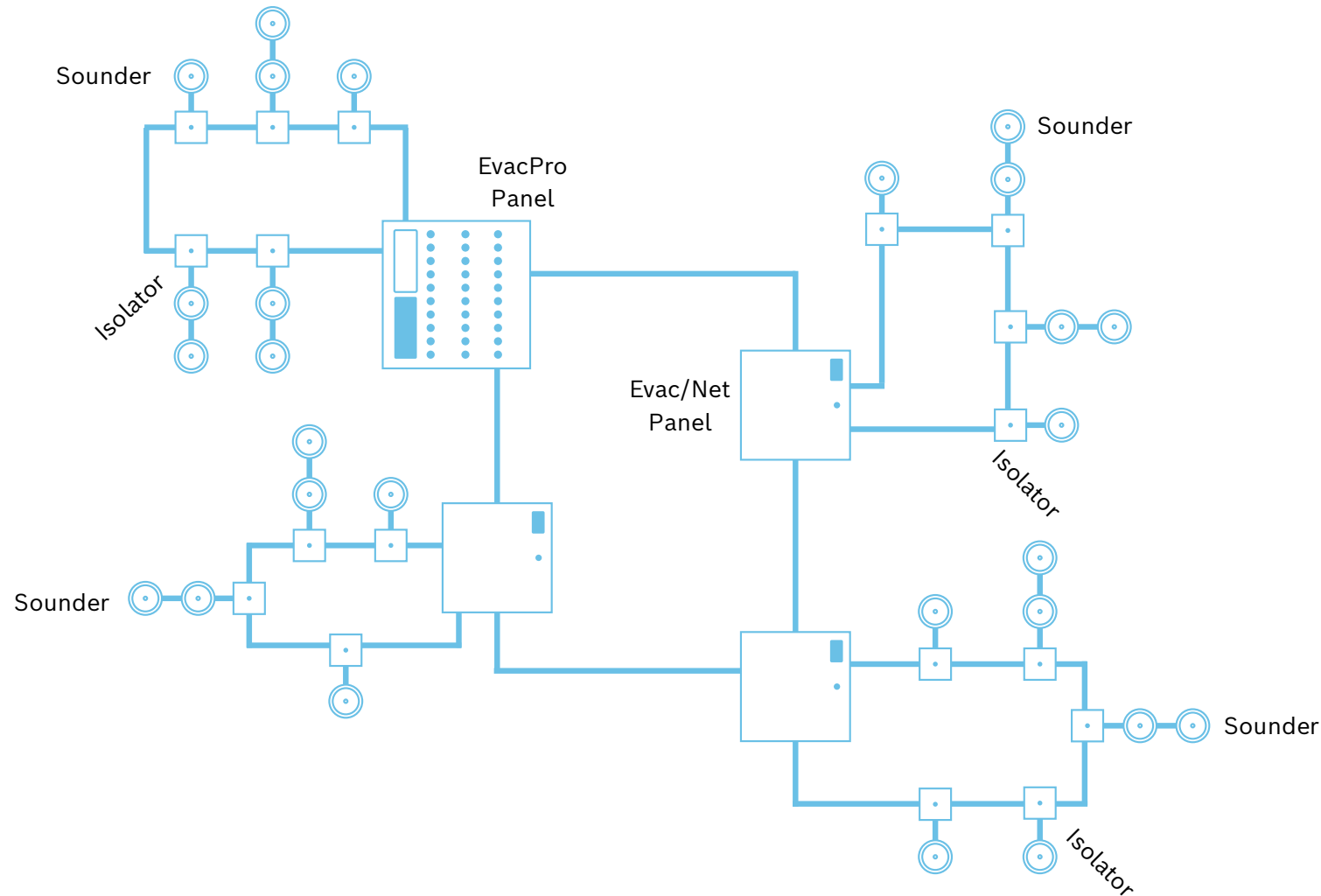
The potential to network so many panels together allows for up to 51,200 addressable devices across 256 digital addressable loops. This level of scalability ensures you can confidently expand the system to meet the demands of the tallest, largest and most complex installations.





# Networking Schematic

The EvacPro system allows you to easily create a powerful evacuation alert system that covers high-rise buildings or several blocks of accommodation complexes. This is achieved by connecting multiple EvacPro or Evac/Net panels using a 2-core screened enhanced fire rated cable, accommodating up to 64 panels. With this setup, you can rest assured that your EACIE system is highly efficient, effective, and reliable.



\*Addressable loop isolators (6000/MICCO) are installed after every twentieth device or at each floor division whichever is first.





## 6000 Sounder Range

Loop-powered devices that demand  
attention



# Addressable Sounder

A sounder is a crucial component that ensures your fire alarm system raises the alarm in an emergency. Our range of addressable sounders are loop-powered devices that deliver a powerful sound with minimal current consumption.

The addressable sounder range are low-current loop-powered devices that deliver an impressive sound output of 100dB(A) at one metre. The sounder offers three distinctive tones: warble, continuous, and pulse. Control is at your fingertips, allowing you to adjust the volume across three levels—100dB(A), 95dB(A), and 75dB(A), all configured at the main fire alarm control panel.





# Sounder Variations

Like other Protec products, design is vital, and our sounder range is no different. By combining products, we strive to reduce installation and commission time. That's why all our sounders come complete with our FAST™ addressing and incorporate loop isolators into the device.

We take this design philosophy further by incorporating our sounder technology into other Protec products, such as our VAD and sensor range, negating the need for multiple devices and streamlining the design and installation experience for designers, engineers, and end-users.



## Wall Mounted

The 6000/SSR2 is available in red and white body colours. With versatility through two base options, the standard 'shallow' for a less intrusive appearance or an optional 'deep' base, which offers an IP65 rating, makes it suitable for apartment and balcony installations. The deep base welcomes surface-mounted cables to converge directly into the sounder, further streamlining the setup.



## Discreet

Specifically designed to go unnoticed and blend into a contemporary space, our discreet sounder is a sounder disguised as a sensor. These prove great for habitable rooms where aesthetics are essential when red wall-mounted sounders are deemed unsightly, and detection isn't needed or done by other methods.



# Visually Address the Evacuation

Visual Alarm Devices (VADs) are high-output LED beacons that alert deaf or hard-of-hearing people of a fire in a building. They work by emitting flashing pulses of bright white when the fire alarm is activated. The Protec VADs offer intense attention-grabbing light, which can be seen around a room, making them unavoidable in a fire.

Our range of visual alarm devices meets industry regulations and is purposely designed to fit all types of scenarios to ensure the correct coverage in an emergency. Our VADs redefine efficiency by embracing low-consumption loop-powered technology, removing the need for additional power supplies and cables.

Like all other Protec addressable devices, they utilise our 6000PLUS protocol, meaning our VADs are easy to install and commission due to our FAST™ addressing method.





# Ceiling Mounted VADs

Protec provides several ceiling mount options for VADs, which are manufactured to offer the regulatory high-output light within low-ceiling areas where a detector isn't required or when other forms of detection are in place. These provide a great solution to adding devices into low-ceiling areas such as toilet cubicles and changing rooms, etc.



## **Discreet Sounder**

The 6000PLUS discreet sounders/Sounder VADs provide the same alarm coverage and capabilities as the SSR and SSR/VAD, whilst being more aesthetically discreet.

For illustrative purposes only.



# Wall Mounted VADs

Wall-mounted VADs project light over a more significant amount of space. These VADs prove beneficial in high ceilings areas, such as warehouses, shopping malls, etc., where a ceiling mount alternative isn't suitable.

The design of our wall-mounted VAD range is such that it offers the optimum spread of light. By angling the high-output LED, it directs the light downwards and outwards, optimising its path and making an excellent visual notification in an emergency.



## **Combined Wall Mount**

Our combined unit integrates a VAD into a traditional wall-mounted sounder. Created to offer both audible and visual alarms in noisy environments. Like our single wall-mounted VADs, the units still provide the same angled LED design to ensure optimum light performance.

For illustrative purposes only.





## Ancillaries

Additional devices for  
enhanced system capabilities



# Interface and Isolator



## Single Channel interface

The Protec 6000/MICCO is a loop-powered fault-monitored input and a volt-free clean contact output interface. An onboard isolator protects against loop short circuits on incoming or outgoing connections.

### Key Features

- Self-contained Enclosure
- Loop Powered
- Clean Contact Output
- Integral Short Circuit Isolator



## Loop Isolator

The loop isolator is a passive system device that isolates the loop when a short circuit is detected, ensuring the rest of the evacuation system can perform functions as expected. Once a short circuit is eliminated, the isolator returns to a normal state, and the evacuation system operates as normal.

### Key Features

- Low Current Consumption
- Passive Device (No Address Needed)
- LED Indication
- Fits in a Single Gang Box





# Power Supplies

Ensure your critical systems stay powered and protected



# Reliable and Efficient Power Management

Protec's series of power supplies are manufactured to power our range of life safety and security systems. Adding intelligence to a simple power supply through our system monitoring makes our units ideal candidates for power and battery backup to life-critical safety systems.

## **10 Amp Power Supply Unit - EN 54C-10A**

The EN 54C-10A power supply and charger is a lightweight and efficient unit that complies with the latest version of EN 54-4. It is designed to work seamlessly with Protec's 24 Volt dc equipment range, delivering a consistent 24 Volt dc output from a 230 Volt ac mains input. In the event of a mains power outage, the unit automatically switches to a standby battery supply. The standby batteries are intelligently charged and monitored to ensure they are in optimal condition if they are needed.

### **Key Benefits**

- EN 54-4 compliance
- Mains battery switching
- Intelligent battery charging
- Battery monitoring
- LED status indication
- 24V dc output























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