

## Fire Paging System

“Industrial Strength” paging transmitter designed for use with professional Fire and Security systems installed in commercial/industrial premises. The system is primarily designed to alert the hearing impaired in the event of a fire or other emergency where an audible sounder is the normal means of indication.

Main users include factories, offices, universities, schools, hospitals, hotels and public buildings.

Also available with LOCKDOWN messages (request at point of order)



### Features

- UHF radio link for robust in-building coverage
- Unique coding avoids neighbouring system clashes
- Self-monitoring system
- Rugged steel enclosure to IP54
- Backlit 2 line Text Display continuously reports system status
- Additional Visible & Audible status indicators
- Prioritised Fire Alarm Inputs and Fault inputs
- Automated test calls alert pagers to loss of radio signal
- Fault notification to the host Control Equipment via monitored link
- Key locked “System Test” for routine checking
- Over 90 hour’s operation from internal battery
- RS232 serial input for other messaging
- Optional Ethernet card and additional RS232 input
- High power transmitter provides 2w ERP RF output for enhanced coverage of large sites

The Pagetek Pro System is designed to comply with the recommendations detailed in BS5839-1: 2017 for alerting the hearing impaired to the activation of a Fire Alarm.

The system can also be used in conjunction with a security alarm panel to alert guards who might be located remote from the main premises.



The interface to the host Fire alarm system comprises of multiple prioritised Fire inputs and a further input to provide for fault indication from the Fire panel. For ease of installation, a monitored interface cable is provided with the system which also includes a “common fault” relay output back to the host Fire alarm panel. This will activate if the PageTek Pro suffers a mains failure, transmitter fault, antenna mismatch, link failure, low battery or missing battery condition.

Radio signal jamming, weak signal or loss of signal conditions are clearly indicated on the front panel display of the PageTek Pro using simple text messages, together with a fault light and an audible sounder. These fault messages can also be transmitted to a pager or group of pagers for added integrity.

Upon activation of any Fire Zone input, the PageTek Pro system will enter the fire alert condition, prioritising and transmitting the Fire message to all pagers. The transmissions will be repeated until the fire condition is reset. Special format Scope pagers ensure that users are alerted by distinct vibrate patterns and clear text messages.

## Additional Features

The PageTek Pro 2 has the ability to interface with other devices using a RS232 serial port (PTPRO/2M). Typically this could be linked to the printer output of the host fire panel to provide zone data and other status information to separate pagers carried by maintenance staff etc.

Pager wearers can also be paged individually using optional Connex Page PC

## UHF Radio Frequencies

An alerting system is only as good as its weakest link: self monitoring systems with excellent diagnostics are all well and good, but if the radio link and system coding are not of the highest possible integrity, then the system will not achieve its purpose.

Scope uses only UHF radio frequencies, which provides superior in-building propagation.

## Unique coding

Good practice dictates that unique coding is also vital to prevent false triggering of pagers from neighbouring systems, especially where more than one transmitter is installed on the same site (e.g. a university campus). This too, is acknowledged in Section 27.2 of BS 5839-1: 2017. All Scope systems use coding which provides a minimum of 2 million differs; this can be further increased to 16 million using the inherent features of Scope pagers.

## Scope high integrity pagers

To complete the system, Scope offers alphanumeric pagers with added features specially incorporated for the hard of hearing when used with the PageTek Pro system. This includes distinct vibrate alerts for emergency messages, a vibrating out of range indicator which also displays "No Service" on the pager if the radio link is lost, and a vibrating low battery indicator as acknowledged in section 18.2.2 of BS 5839-1:2017.

Certain pagers can also be pre-programmed to lock out all user menus, preventing the pagers from accidentally being switched into a tone alert mode or switched off. Scope's flagship EPOC-S pagers are also compatible, providing even more flexibility and integrity with its rugged design, extra bright flashing LED and colour changing screen (see separate datasheet for full details)



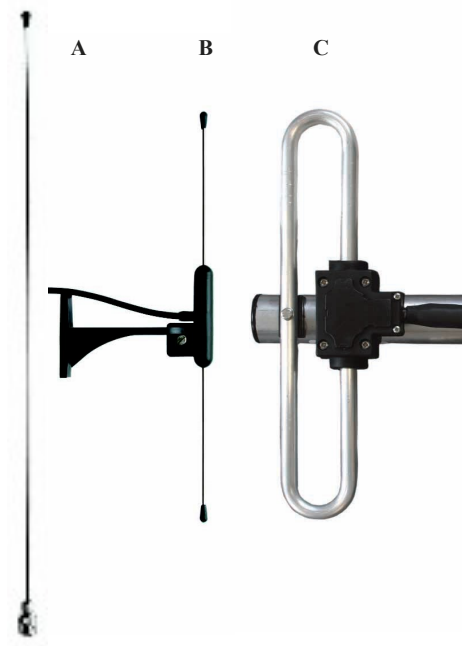
EPOC-S Responder

## Optional antennas

A. 3/4 wave fixed antenna: will cover most commercial sites.

B. Mini Dipole antenna: remote internally mounted antenna for larger sites or areas of difficult propagation

C. Folded Dipole antenna: remote externally mounted antenna for maximum coverage (e.g. campuses and multi-building sites).



## Extra peace of mind

As any professional radio designer and manufacturer will confirm, radio is not perfect. You cannot guarantee 100% coverage 100% of the time, nor can you neatly limit its coverage to the shape of a building (despite what some "radio sculptors" might claim)! This will deter but not prevent illegal interference, nor will it stop a metal clad building being erected where there was previously excellent signal propagation. Scope recognises these facts and has designed extra safeguards to alert the system user to any loss of radio signal. In addition to the system's self-diagnostics which will recognise a transmitter fault or antenna mismatch, if any Scope pager goes out of coverage, within two minutes the pager will vibrate until acknowledged by the user, and will display a "No Service" message. The message will remain on screen until the pager is back in the service area. A reminder vibrate alert will also activate every 15 minutes until the pager is back in the coverage area as recommended in section 18.2.2 of BS 5839-1:2017.

# PageTek Pro 2



## Specification

**Footprint:** (H) 380\* x (W) 320 x (D) 110 mm  
[\*840 mm with 3/4 wave antenna]

**Wall mount centres:** (H) 344 x (W) 220 mm.  
Hole Dia. 4.75mm

**Clearance:** allow minimum 200 mm clearance on all sides, plus additional 460mm on top if fitted with 3/4 wave fixed antenna.

**Power Input:**

90-230V ac 50-60 Hz, 10W (max)

**Backup supply:**

12V 18Ah SLA battery\*

\*[Battery not supplied, but internal mounting kit, cable assembly and fuse is supplied fitted]

**Facilities required:** Isolated\* 230V ac mains supply within 1 metre of the unit  
[\*in accordance with BS 5839-1: 2017, Section 25.2]

Host Fire panel within 1.5 metres of unit

[other recommendations in accordance with BS 5839-1: 2017, Section 23.2]

**Compliance:**

Radio Equipment Directive 2014/53/EU

BS 5839-1:2017, para 18 & Annex C

ROHS Directive (EU) 2015/863

**Standards Applied:**

EN 300 224 V2.1.1 (Radio Paging)

EN 301 489 -1 V2.2.1 (EMC)

IEC 62368-1: 2020 (Safety)

## System Kit

Models: PTPRO/2, PTPRO/2M

comprising, main cabinet housing all interfaces, transmitter and internal mains power supply; mounting kit and internal cabling for battery backup, external monitored interface cable, 3 off cable glands (20mm), 1 off rubber bulkhead sealing gland, wall mounting screw kit and Installation manual.

To be ordered separately:

## Antenna options

Model:

|       |                        |
|-------|------------------------|
| LDPRO | Mini Dipole antenna    |
| 34BNC | 3/4 wave fixed antenna |
| FDANT | Folded Dipole antenna  |

## Pager options

Model:

|               |                                                        |
|---------------|--------------------------------------------------------|
| GEO 40A10     | Alphanumeric pager, 2 line,<br>40 character            |
| GEO 86Z, 87Z, | Alphanumeric pager, 4/8 line<br>zoom, 80/160 character |
| EPOCSM        | Responder/paging transceiver<br>with desktop charger   |

## Required but not supplied by Scope

1 x 12V, 18Ah sealed lead acid battery



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Licensing: This equipment requires a license for operation in the UK.  
Contact our sales team for further details.

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