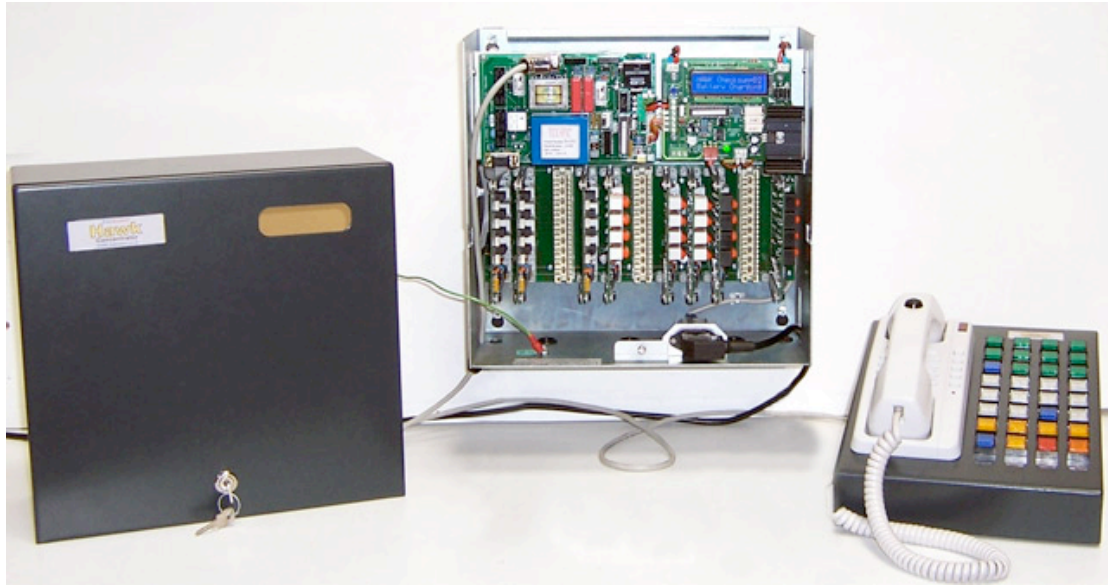


## Hawk Telephone Concentrator



The Hawk Telephone Concentrator is a high integrity telephone switch designed specifically to work within the safety environment of railway trackside communications. Nearly 200 systems have been installed throughout the United Kingdom to date.

Sales and marketing for this product is primarily undertaken through our associated company Fone-Alarm Installations Ltd.

Fone-Alarm are approved contractors to Network Rail. By being a key partner with us for this product they are able to offer a complete turn key package for installation, commissioning and maintenance when and where required .

For further information, please visit : [www.fonealarm.co.uk/home.htm](http://www.fonealarm.co.uk/home.htm)

### Detailed product information

The following specification is provided to allow project engineers the opportunity to appreciate the design aspects of the product.

### **Benefits of using the Kestrel Hawk Concentrator:**

- Low cost – up to 20% less than other concentrators.
- Quick installation, 30 lines normally completed in one day
- Ease of operation
- HMI Presentation – Key & Lamp or Touch-screen
- Thumb operated PTT button included on Handset
- Line types supported, Auto, Magneto, CB, 2wire E & M, Whiteley PETS together with the new KETS Kestrel Emergency Telephone System
- Minimum 12Hr UPS included (Typically 18 to 24 hours use from mains failure)
- Voice recorder interface included as standard. (Buffered output )
- Alarm monitoring, with display in plain English
- Two clean contact alarm ports for inputs from other equipment
- Alarm notification and acceptance on HMI
- Serial data port for remote alarm monitoring
- Remote HMI capability over carrier / IP systems.

Network Rail approval to specification NR/SP/TEL/30002 Issue 4.

PADS No PA05/02563

EC compliant

## Wall mounted control unit

The control unit is a compact unit designed to be fitted where, necessary, within a Signal box or signal cabin where little space is available. The unit includes a UPS facility providing a minimum of 12 hours support in the event of mains failure.

Size is 310 w x 160d and available in two sizes 4 – 30 lines (310 high) and 4 – 60 lines (420 high)

## HMI

The HMI supplied by Kestrel can be either key and lamp or touch screen.

The Key and lamp versions may be desk or wall mounted or else a specific 'laid in panel' to meet a specific project requirement. Kestrel are always pleased to look at non standard designs to allow customised solutions to specific projects.

## Training courses available

- Installation training
- Operator training
- First and Second Line Maintenance Training
- Third Line Maintenance Support available

## Product specification

### 1. LINE INTERFACE SPECIFICATIONS

Line Characteristics	General	Balance to earth $\geq -70\text{dB}$ Crosstalk $\geq 70\text{dB}$ within Hawk system
Central Battery circuit	Line voltage Termination impedance Maximum loop resistance Loop detect current Loop release current Maximum loop current	30v DC nominal 600 ohms 1200 ohms 12.5mA 10mA 25mA
Magneto circuit	Line voltage Termination impedance Maximum loop resistance Ring detect level	No line voltage applied 600 ohms 5000 ohms 20v rms. 16/50 Hz (minimum)
Auto circuit		Meets TBR21
PETS Circuit		Interfaces to the Whiteley PETS 2 system
KETS Circuit	Line voltage Termination impedance Maximum loop resistance	50v DC 600 ohms 1200 ohms

## 2. SERVICES

CB Ringer	Frequency Cadence Drive capability	37 Hz Cadence to BS6305 REN of 4 (BS6305 refers)
Magneto ringer	Frequency Cadence Drive capability	37 Hz Single ring burst for 2 seconds (Optional continuous ring) REN of 4 (BS6305 refers)
PSU	Proprietary PSU	
UPS	Via 12 Volt batteries contained within the Hawk Wall Unit	The mains supply is backed up to provide a minimum bridge against supply failure of 12 Hrs or as specified in a particular project.
Mains	Input volts Load	110v/220v/240v (factory set) Dependant on size of system but approx: 25VA normal peak, per 30 line sub- system 15VA on standby
Environmental	Humidity Temperature	20% - 85% RH, non condensing 0 <sup>0</sup> C to +50 <sup>0</sup> C operating -20 <sup>0</sup> C to +70 <sup>0</sup> C storage