

- Complies Fully with BS5839 Part 9
- Vox Duplex Speech Paths
- Protected Against Open and Short Circuit Conditions
- System Control for up to 160 Outstations
- Standard Telephone Call Tone
- Network & Outstation Cabled 4 Core Loops
- Disabled Toilet Alarm Facility (optional)
- Outstation LED Beacon Facility (optional)
- User 12 Button Numerical Keypad



The EVC40 is a state-of-the-art fire telephone and disabled refuge emergency voice communication system. Protec has designed the EVC40 to cater for the existing fire telephone market, stadium stewards telephone and also to offer a solution to the requirements of the Equality Act. It features a bespoke two wire audio and data bus which minimises the wiring required for the system, whilst maintaining full addressability and monitoring. The system is fully compliant to BS5839 Part 9.

The Master Control Panel has been aesthetically designed to match our range of fire alarm panels.

The system is capable of driving up to 40 outstations per panel, and 4 panels can be networked together to give a total of 160 outstations.

The panel has 'All Call' and 'Group Call' facilities as standard.

The panel offers comprehensive user controls and easily replacable colour coded text labelling format.

The panel can be programmed so that it is dormant until it receives a signal from the fire alarm system, preventing misuse of the system. The panel also has two programmable volt free output contacts

Panels are also available in the following software versions, allowing the user to select a system tailored to their budget; EVC04, EVC08, EVC16, EVC24, EVC32.

## Optional Equipment & Outstations



### EVC/EXT - EVC Extension

This module is the EVC Extension, which displays the additional outstations above the 40 that are displayed on the EVC40 Master Control Panel. Each EVC/EXT can support any combination of Type A and/or B variants and can be colour coded for ease of visual recognition. This unit communicates to the EVC40 via the network communications loop. This module is available as a 40 or 80 way extension.



### EVC/ALP - Audio Loop Processor

This module processes additional loops containing the outstations. Each Audio Loop Processor (EVC/ALP) can handle upto 40 outstations consisting of Type A and/or Type B variants. This unit communicates to the EVC40 and other EVC/ALP via the network communications loop.



### Extended Standby Power Supply

The Protec EVC40 is equipped with an integral power supply unit and 24h standby battery. For extended standby duration in the event of mains failure, Protec offer the Protec 9000 range of remote power supply units with battery standby to comply with the appropriate legislative requirements.



#### Fire Telephone Outstation - Type A Model References

**EVC/FTSL** - Surface Mount Fire Telephone Outstation - for surface mounting onto a wall with lockable door.

**EVC/FTFL** - Flush Mount Fire Telephone Outstation - for semi-flush mounting into a wall with lockable door.

**EVC/FTSNT** - Surface Mount Fire Telephone Outstation - for surface mounting onto a wall with magnetic catch, non-lockable.

**EVC/FTFNL** - Flush Mount Fire Telephone Outstation - for semi-flush mounting onto a wall with magnetic catch, non-lockable.

#### Dimensions and Finishes

Flush - 221(W) x 301(H) x 96.5(D)mm  
Surface - 180(W) x 260(H) x 95(D)mm  
Finish: Signal Red - RAL3001



#### Disabled Refuge Outstation - Type B Model References

**EVC/DRF/G** - Flush Green hands-free Disabled Refuge Outstation - c/w built in speaker, microphone and call button.

**EVC/DRS/G** - Surface Green Hands-Free Disabled Refuge Outstation - c/w built in speaker, microphone and call button.

**EVC/BB/G** - Green Outstation Back-Box - Back box for hands-free type disabled refuge outstation.

#### Dimensions and Finishes

Flush - 150(W) x 220(H) x 1.5(D)mm,  
Surface - 130(W) x 200(H) x 1.5(D)mm  
Backbox - 130(W) x 200(H) x 55(D)mm  
Finish: Signal Green - RAL6032



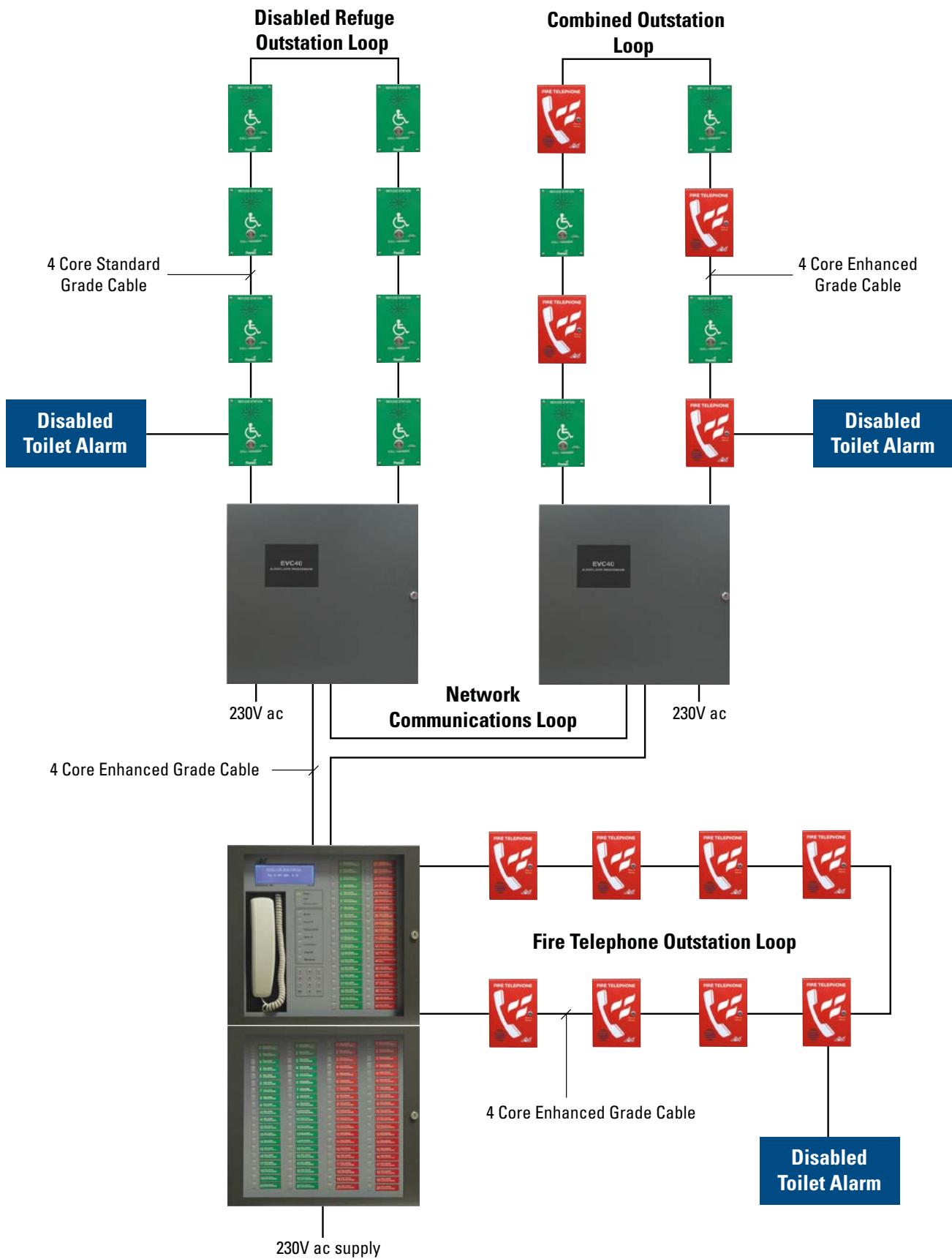
#### IP65 Disabled Refuge Outstation - Type B

**IP65 Disabled Refuge Outstation** - This is our standard disabled outstation housed in an IP65 enclosure with lever lock.

#### Dimensions

Surface - 200(W) x 300(H) x 120(D)mm

## Typical System



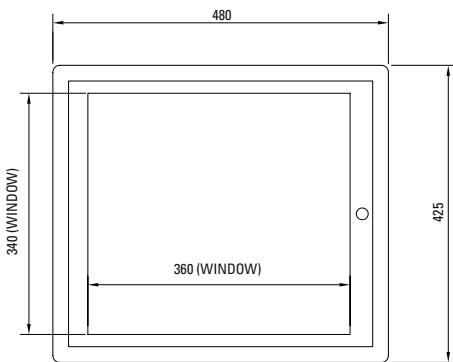
**NOTE:** Please see separate datasheet for information on the Disabled Toilet Alarm

## Technical Specification

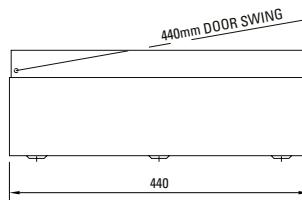
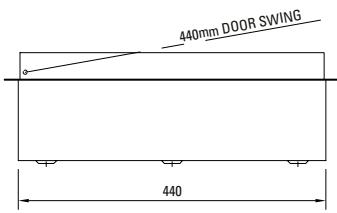
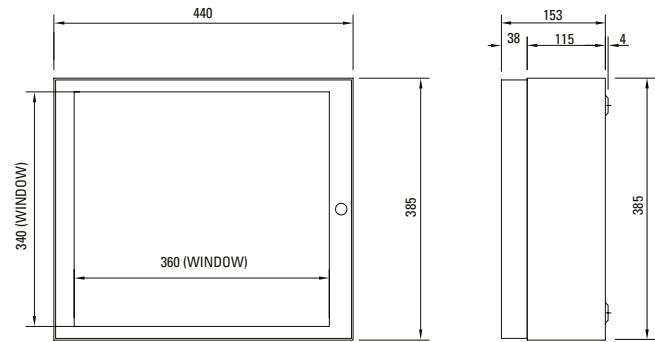
<b>Power Supply</b>	230 AC / 24V dc operation (battery support for 24hrs standby and 3hrs continuous use)
<b>Integral Charger</b>	3A switch mode, temperature compensated
<b>Maximum Battery Size</b>	2 x 12V 18Ah
<b>Fault Indication</b>	By lamp, buzzer and LCD display
<b>LCD Display</b>	240 x 64 bit graphical
<b>Call Features</b>	'All Call' facility to outstations with a loudspeaker, 'Group Call' to selected units
<b>Microphone Frequency Response</b>	250Hz to 4kHz +/- 3dB
<b>IP Rating</b>	Outstations protected to IP33 (indoor) & IP65 (external with separate enclosure)
<b>Cable Type</b>	4 Core, enhanced grade, fire rated cable for loops and network. This can be reduced to standard grade for Disabled Refuge only systems as detailed in BS5839-9:2011
<b>Maximum Loop Cable Length</b>	2km max with 2.5mm <sup>2</sup> cable, 1km max with 1.5mm <sup>2</sup> cable
<b>Temperature Range</b>	0 to 40°C
<b>Humidity Limit</b>	85% Non-condensing
<b>Maximum Loop Cable Capacitance</b>	0.27µF
<b>Maximum Loop Cable Resistance</b>	15Ω per conductor

### EVC04, EVC08, EVC16, EVC24, EVC32, EVC40 Dimensions (mm)

**Flush Mounted (with bezel)**



**Surface Mounted (without bezel)**



**Protec**  
Protec Fire Detection plc

Company policy is one of continuous improvement, we reserve the right to change specification without prior notice

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