Protec
Fire and Security Group

EVX-228 - 2 to 8 Line Master Station

- **Compact Design**

- **Fully Compliant to BS5839-9: 2011**

- **Integrated Assist Call and acknowledge meeting BS8300**

- **1.5A EN54-4:A2 PSU**

- **Full Duplex operation**

- **Wall mount enclosure**

- **Lockable handset cover**

- **Expandable from 2 to 8 lines**

- **Inbuilt networking**

An EVCS is a fixed, secure, bi-directional, full duplex voice communication system to assist fire fighters during emergencies in high rise buildings or large sites where radio communication cannot be guaranteed to work due to interference from the fire corona.

The EVX-228 Master station can accept up to eight lines of outstation, (type A fixed phones, type B refuge hands free points, emergency assist call point or jack points in Far East and Middle East applications) as required.

Lines auto identify by flashing Red for EVCS calls, Blue for assist calls or flashing Green for Connected calls as detailed in BS5839-9:2011 Assist Calls can be acknowledged by pressing the zone key (as required by BS8300) and will return to alarm if not reset within two minutes.

The EVX-228 has inbuilt networking allowing it to form one of the 64 panels on an EVX network installation, or allowing a repeater using another EVX-228, where buildings have two points of control.

When networking at least one EVX-TMS touchscreen master station is required to act as the master control and indicator panel.

Starting at two lines the EVX-228 is ideal for small buildings which are required to have an EVCS, but which have a limited number of outstations.

Technical Specification

Power Supply and Charger

AC input	230VAC +/- 10% 50/60Hz
Internal supply	5V, 16V, 27V DC
Supply	Monitored Open, Short, Fuses, High Impedance
Protection	Deep discharge, Short, Thermal
Battery type	1 x 12V 7AH VRSLA
Mains fuse	240V 1A HRC
Battery fuse	750mA PTC
Charge current	400mA

Inputs

Lines	2-8 in 2 line blocks
Remote enable	Short to use
End of line	10KΩ

Outputs

Number	2, Fault & In use
Type	Volt free relay
Contact	30V DC 1A

*Refer to BS5839-9:2011 for exceptions

Controls

Buttons	8 Zone keys
Zone LEDs (x8)	RGB Status leds
Fault LEDs	3, PSU, System, General
Supply LEDs	2, AC, DC present

Network Cables

Type	Enhanced*
Cores	2 x 2 core 1mm or 1.5mm
Distance	500m

Standards Compliance

EMC	EN55103-1,EN55103-2
LVD	EN60065
Product Family	BS5839-pt9, BS9999, BS8300

Dimensions	Panel	Bezel	Cutout
Height	300mm	350mm	305mm
Width	350mm	400mm	355mm
Depth	95mm	1mm	85mm
Weight	6.5Kg		

The EVX-228 is a self contained enclosure housing a master handset, one to four dual line cards, an EN54-4:A2 2006 power supply & battery charger and can be surface or flush mounted (Using the EVX-CBZ Bezel)
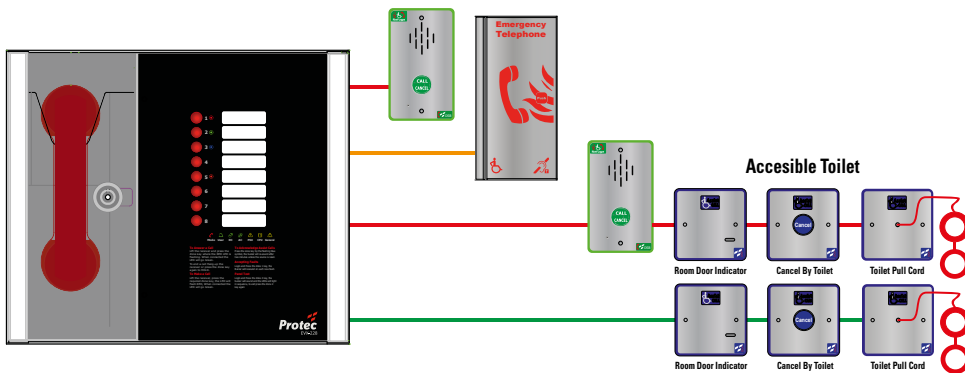
The case is made from powder coated zintec, with a smoked perspex door covering the handset.

20mm cable knockouts are provided for all necessary cables as well as space for the backup 12V VRSLA battery.

The master station is microprocessor controlled, but requires no programming on site; the panel is fitted with end of line resistors which are simply moved to the end of line when an outstation is connected.

Lines can have an accessible toilet and Type B refuge point on the same line, as the front panel RGB indicators identify which is calling, with refuge overriding emergency assist calls as required by BS5839-9:2011.

Typical Schematic

Accesible Toilet

Room Door Indicator | Cancel By Toilet | Toilet Pull Cord

Cable Key

— 1 x 2 Core 1.5mm CSA Standard Rated Fire Cable
— 1 x 2 Core 1.5mm CSA Enhanced Rated Fire Cable
— 1 x 2 Core 1mm CSA PVC Minimum