VoCALL 16 Digital EVCS - Standalone



Eaton VoCALL 16 is a high specification, digital, loop driven, intelligent emergency voice communication system offering sophisticated functionality along with simple and intuitive end user interface.

VoCALL16 is designed to ensure the simplicity of future system expansion without additional accessories. A maximum of 16 outstations of any combination can be connected to a main panel on the loop. Loop wired configuration along with short circuit isolators ensures the network is fault tolerant.

The system uses digital audio communication to achieve high audio quality and intelligibility when it matters the most. Continuous fault monitoring ensures high availability. Extensive time stamped logs, also available on SD cards, ensures ease of debugging.

The simplicity of operation, ease of cabling and competitive pricing make the system suitable for a wide range of applications. In combination with our range of soft addressable digital outstations, stand-alone system reduces labor and material cost along with potential for wiring errors associated with traditional spur systems.

Features

- Up to 16 digital outstations per panel
- 4 core loop configuration
- Soft addressing of outstations
- Extensive time stamped logs on SD card
- Large graphical user interface
- PIN protected user access
- Flush mount options
- Fully compliant with BS5839-9



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Emergency voice communications

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Benefits

- Fault tolerant loop wired design
- Simple configuration
- Fast commissioning
- Easy maintenance and extensive logging
- Superior audio quality
- Simple and intuitive operation
- End user graphical interface
- Full range of compatible outstations
- Quick and simple identification of outstation in use
- Secure access for standard users

Installation

- The panel is designed for ease of installation with a full range of knockouts on all surfaces along with a substantial rear entry cut-out.
- Up to 200m max between outstations.
- Up to 2000m total loop length.
- 4 core 1.5mm cable loop (check local standards for cable type and installation regulations).
- Panels are provided with a keyhole type mounting on the rear for ease of installation and alignment.
- Key operated hinged lockable door.
- Mains input protection is provided via a resettable fuse.
- Comprehensive installation and operation manual is provided on the SD card in each panel and online.

Capacity

- Up to 16 outstations in total, non-networkable system.
- All digital outstations Type A, Type B, and Emergency Assist Alarm (EAA) can be connected on the loop in any order.

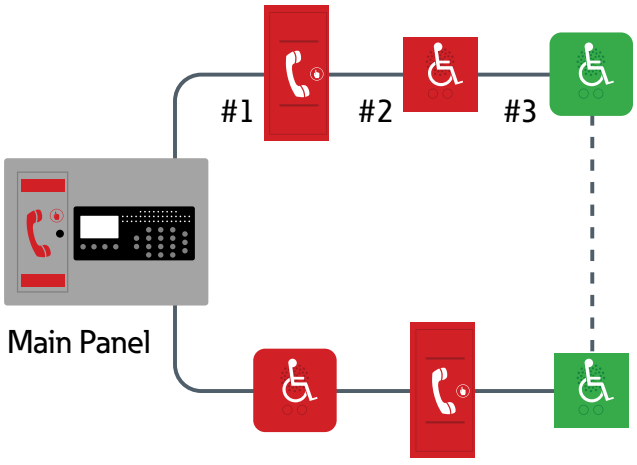
Functionality

- Bi-directional calls facility. Lift the handset (Type A) or push the button (Type B) to make a call to panel. Dial the outstation number from panel to call the outstation.
- Loud-speak and listen in facility available with type B outstations.
- Three access levels defined - User, Manager, Engineer. Upto 10 personnel accounts with facility to configure access level permissions.
- Emergency Assist interface for disabled toilet alarms with reassurance function.
- All personnel accounts are accessed with relevant 4 digit PIN codes enabling security.
- PIN access required for view panel information, set panel configuration, logs viewing and management, fault management. No PIN access needed to make or receive calls.
- Intuitive configuration steps made possible with graphical user interface , well structured menu options, soft addressing of outstations on the loop.
- Indications (LED and buzzer), operation (calls, faults types) and logging in full compliance with BS5839-9:2011. Extensive time stamped logging of all call operations, faults and system events.
- Digital audio transmission and automatic volume control to maximize clarity of communication between panel and outstation.
- In event of occurrence of external short circuit, system will operate integral short circuit isolators on the devices nearest to each side of the short isolating the fault. Panel then drive the communication in both directions maintaining rest of the network functional.
- Adherence to EN 55103:2 2009, EN 55032: 2015 (Emission) EN 55035: 2017 (Immunity), EN 54-4 (Power supply).

User interface

- Large user interface display (100mm x 40mm) with adjustable brightness provides comprehensive information. This along with large tactile standard mechanical keypad with acoustic feedback allows for ease of operation in an emergency situation even with gloved hands.
- Clear indication with universal symbols, bright LEDs for depicting system health and operation in a glance. Individual LEDs (16 in #) to indicate call and fault state of each outstation provides comprehensive information even to an untrained user unfamiliar with the operation of the unit.

Wiring and installation



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Technical specification

Power supply	
Input voltage	230V ± 10% RMS 50/60Hz AC - input to Power supply
Current consumption @ 24V:	Secondary source - Battery back-up. Batteries not supplied. 2 x Yuasa 12Ah 12V battery (recommended)
Power consumption	
VoCALL16 Main panel	2.7W
Type A outstation	0.65W
Type B outstation	0.65W
EAA outstation	0.65W
Mechanical	
Dimensions (H x W x D mm)	
VoCALL16 Main panel	355 x 487 x 158 mm
Type A outstation	320 x 152 x 114 mm
Type B outstation	132 x 132 x 57 mm
EAA outstation	132 x 132 x 57mm
Weight (VoCALL16 Main panel)	6.7kg (without batteries)
Weight (Type A outstation)	2.2kg
Weight (Type B outstation)	0.6kg
Weight (EAA outstation)	0.6kg
Environmental	
Temperature (Storage)	-5°C to +40°C
Temperature (Operation)	-5°C to +40°C
Humidity range	0% to 95% non-condensing

Product order codes

Order code	Description
MX16	VoCALL 16 Main panel
MX16-SSC	VoCALL 16 Main panel, stainless steel, flush cover
MX16-BEZ	VoCALL16 Main, semi-flush frame bezel
TA16-RS	Type A outstation (Red, surface mount)
TA16-BEZ	Type A outstation (Bezel, red, flush mount)
TA16-SS	Type A outstation (Stainless steel, surface mount)
TA16-SS-BEZ	Type A outstation bezel (Stainless steel, flush mount)
TB16-GS	Type B outstation (Green, surface mount)
TB16-GF	Type B outstation (Green, flush mount)
TA16-RF	Type B outstation (Red, flush mount)
TB16-RS	Type B outstation (Red, surface mount)
EAA16-LS	Emergency Assist Alarm outstation
CFEAPULLKIT	Stand alone powered EAA Kit

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