NETWORK 16

Emergency Voice Communication System

Honeywell's Network 16 is a high specification, digital, loop driven, intelligent Emergency Voice Communication System, offering sophisticated functionality along with a simple and intuitive end user interface.

This network* version enables a system installation of up to 32 main panels and network panels. With a maximum of 16 outstations per panel, a total system size of 512 outstations is possible, all connected and communicating via isolated fault tolerant loops.



The system also uses digital audio communication to achieve high audio quality and intelligibility when it matters the most. The use of isolated loops also reduces labour and material cost along with potential for wiring errors associated with traditional spur systems.

Network 16 is designed to ensure the simplicity of future expansion. Continuous fault monitoring and reporting ensures high availability. Extensive time stamped logs ensure ease of debugging and recording for compliance.

In combination with our range of soft addressed digital outstations and intuitive laptop configuration tool, the simplicity of operation, ease of cabling and competitive pricing makes this system suitable for a wide range of applications

***Note:** Networking functionality can only be accessed by trained personnel

FEATURES AND BENEFITS

- Large graphical user interface
- PIN protected user access
- Fully compliant with BS5839-9: 2011

- **Simple to design network**
  - At least one main panel is required
  - Any combination of panels (MPX/NSX) possible
  - Any combination of outstations possible
  - Centrally controlled by a main panel

- **Easy to install and operate**
  - Automatic soft addressing of panels and outstations
  - PC based application for configuration
  - Complex call routing is possible
  - Extensive time stamped logs on SD card

- **Network capacity of 512 outstations**
  - Up to 32 panels (main/network) in a loop
  - Up to 16 digital outstations per panel
  - 4 core loop configuration (two for power, two for data)

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NETWORK 16

Benefits

- Fault tolerant loop wired design.
- Simple drop in replacement of device possible, if needed.
- Simple configuration, faster commissioning.
- Easy maintenance and extensive logging.
- Superior audio quality.
- Simple and intuitive operation.
- Centrally controlled network architecture.
- Full range of compatible outstations.
- Appealing look with flush mount options.
- Quick and simple identification of device 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 300 m max between panels. Up to 9 KM total network length.
- Up to 200 m max between outstations. Up to 2 KM total loop length.
- 4 core 1.5 mm cable loop (check local standards for cable type and installation regulations).
- Panels are provided with keyhole type mounting points 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 32 panels in total, with any combination of main/network panel.
- Master panel has to be a main panel.
- Up to 16 outstations per panel, with any combination of Type A and Type B as well as DDA interface.
- Network capacity of 512 outstations.

Functionality

- Panel has facility for 10 users with access profiles set during commissioning for example user, supervisor and engineer.
- Supervisor and engineer modes can only be accessed via the relevant PIN codes.
- Users can be configured to receive, make and reset a call, view fault / event / call log, functions, view panel version, accept system faults, set date/time etc.
- The unit has digital audio transmission and automatic volume control to optimize clarity of communication between outstation and main panel.
- Engineer mode allows alteration to the system configuration such as change all PINs, panel settings, site name, panel name relay settings, addition or removal of outstations.
- Network 16 is designed to ensure simplicity of future expansion up to 16 outstations.
- In the event of an external short circuit occurring the system will operate the integral short circuit isolators on the devices nearest to each side of the short. The panel will then drive communication from both sides of the loop thus maintaining full communication with all outstations.

User interface

- The main element of the user interface is a large 100 mm x 40 mm display that provides comprehensive user information which, along with the large tactile standard mechanical keypad, allows for ease of operation in an emergency situation even with gloved hands.
- In addition to the graphical user interface there are 16 numbered LEDs to provide instant clear indication as to which outstation is calling even to an untrained user unfamiliar with the operation of the unit.

WIRING AND INSTALLATION



Network 16 Technical Specifications

POWER SUPPLY	
Input Voltage	230 V ± 10 % RMS 50/60 Hz AC - input to Power supply
Current consumption @ 24V:	Battery back-up 2 x Yuasa 12 Ah 12 v batteries not supplied
Network 16 EVCS	2.7 W
Type A outstation	0.65 W
Type B outstation	0.65 W

ENVIRONMENTAL	
Temperature (Storage)	-5° C to + 40° C
Temperature (Operation)	-5° C to + 40° C
Humidity range	0 % TO 95 % non-condensing

MECHANICAL	
DIMENSIONS (H x W x D mm)	
Network 16	487 x 355 x 158 mm
Network 16 Exchange	355 X 355 X 145 mm
Type A Outstation	320 x 152 x 114 mm
Type B Outstation	132 X 132 X 57 mm
WEIGHT	
Network 16	6.7 Kg (w/o batteries)
Network 16 Exchange	5 Kg (w/o batteries)
Type A outstation	2.2 Kg
Type B outstation	0.6 Kg

PART NUMBERS	
DESCRIPTION	ORDER CODE
Network 16 Master Panel	EVCS-MPX-16
Network 16 Network Exchange	EVCS-NSX-16
Digital Type A Outstation Red Surface	EVCS-HSA-RS-D
Type A Outstation Flush Shroud - Red	TA16-BEZ
Digital Type A Outstation Ss Surface	EVCS-HSA-SS-D
Type A Outstation Flush Shroud - Ss	TA16-SS-BEZ
Digital Type B Outstation Green Surface	EVCS-CSB-GS-D
Digital Type B Outstation Green Flush	EVCS-CSB-GF-D
Digital Type B Outstation Red Surface	EVCS-CSB-RS-D
Digital Type B Outstation Red Flush	EVCS-CSB-RF-D
Digital Type B Outstation Ss Surface	EVCS-CSB-SS-D
Digital Type B Outstation Ss Flush	EVCS-CSB-SF-D
Digital Jack Type Outstation -Suface	EVCS-WJPS-D
Jack Type Additional Plate - Flush Ss	EVCS-WJPPSF-D
Digital Toilet Alarm - Surface	EVCS-TAP-D
Master Panel Stainless Steel Flush Cover	MX16-SSC
Remote Jack Handset	EVCS-HANDSET

For more information
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