



VM520 Voice Module

Features:

- Fully monitored system when used in conjunction with MINERVA Analogue Addressable Fire Controller, with all speaker cabling faults detected, enabling use of this unit on projects with full BS5839 requirements
- Customised messages available
- Messages can be triggered via MINERVA address loop or via closing contact inputs
- Output capacity for up to four loudspeakers
- Clear "test" message can be transmitted for the weekly system check, instead of "evacuate". This will prevent any misunderstandings at test time.

The VM520 module is designed to provide a far more effective method by which a building can be evacuated, than with the standard bell or siren warning.

VM520 generates voice messages from its memory, which is then amplified and replayed on loudspeakers, located to ensure full audibility by the occupants of the building. The module has three messages stored in its memory as standard. 'Evacuate', 'Alert' and 'Test' warnings can be triggered directly from the MINERVA fire controller, or from the control outputs of ADT Fire & Security's conventional range of panels.

By a simple process at the manufacturing stage, the standard messages can be removed and replaced with those tailored to meet the requirements of any site.

SPECIFICATIONS

Audibility & Speakers

The level of audibility of the loudspeakers can be adjusted in two ways. Firstly the tappings on the loudspeaker transformer should be set to the required volume, and then this volume can be finely adjusted by the potentiometer in the voice module.

Technical Information

Electrical Characteristics

| | |
|----------------------------|--|
| VM520 | MINERVA Loop |
| Addressable circuit input: | 125 mA from loop |
| Direct Message trigger: | Volt free closing contacts (one per message) |
| External Power Supply | 20 Vd.c. (min) to 32 Vd.c. (max) |
| Output: | Quiescent 15 mA from supply Operational 120mA per speaker |

Environmental

| | |
|-----------------------|--------------------------|
| VM520 | |
| Operating Temperature | -20c to + 70C |
| Relative Humidity | up to 95% non-condensing |

Ordering Information

| | |
|------------------------|-------------|
| VM520 Housing | 577-001-101 |
| VM520 Module | 577-001-102 |
| Industrial Speaker | 577-001-108 |
| Surface Mount Speaker | 577-001-109 |
| Flush Mounting Speaker | 577-001-106 |

Physical Characteristics

| DEVICE | Height (mm) | Width (mm) | Depth (mm) |
|----------------|-------------|------------|------------|
| VM520 Module | 112 | 200 | 71 |
| Industrial L/S | 192 | 192 | 225 |
| Surface L/S | 190 | 190 | 85 |
| Flush L/S | 230 | 230 | 59 |

Technical Information

The standard VM520 contains three sections of sampled voice, which repeat continuously. Each of these is to be 'sandwiched' with a tone which replaces the siren tone used in electronic sounders. This will assist foreign language speakers who may not understand the message content and will also assist in obtaining longer range audibility.

Message 1 'TEST'

5 seconds of pulsed single frequency tone at 0.5 seconds on, 1 second off followed by "Alarm Test".

Message 2 'ALERT'

5 seconds of continuous dual frequency slowly alternating tones at 750 Hz and 1KHz, followed by "FIRE, EMERGENCY, EVACUATE NOW".

Four types of loudspeaker are available for connection to the module:

- Industrial Area Horn
- Cabinet Twin Speaker
- Surface Mounting Metal .
- Flush Mounting Ceiling Tile"

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