



FIRE CRYER[®]
PLUS

Voice Sounders

Product Overview
EN 54-3 Approved



Voice Sounders

Fire-Cryer® Voice Enhanced Sounders use voice technology proven to reduce delay and response rate in evacuation times, therefore significantly increasing safety. Fire-Cryer® can be used as a single message 24 V dc conventional voice sander on any sander/ notification alarm circuit or as part of a sophisticated multi-message, multilingual evacuation system.

Multiple message broadcasting is also available including evacuation, coded or lock-down messages, general safety or security alerts. Foreign language and bespoke messages are also available.

Use of a high-quality rocking armature capsule technology means high sound levels, excellent intelligibility and broadcast of clear, unambiguous messages.

Voice Sounders

“Fire! Fire! Please leave the building now”

Requiring no special wiring, can be retrofitted to existing installations. They are fully synchronised and have an exceptionally low current consumption.

Use as a replacement for electronic sounders or bells to broadcast a clear message for any situation - evacuation, chemical spills, lockdown alert, security or general information.

Where pre-alarm, test and other supplementary messages are required, up to seven different messages can be programmed into the sounders from a library of hundreds - with foreign language and bespoke messages also available.

Using our Voice Controller each message can then be triggered using a variety of inputs.



“This is a Lockdown procedure”

Consultants Specification

The fire alarm and detection system should incorporate the use of voice-enhanced sounders. The voice-enhanced sounders will have the ability to produce up to seven messages using only one pair of wires per circuit and will be fully synchronised. The sounder circuit should have the ability to be monitored for both open-circuit and short-circuit fault conditions using conventional end-of-line monitoring devices.

The voice-enhanced sounders should have a low current consumption, typically 20 mA, and when required, be installed within a deep weatherproof base to IP66.

The sounders should be approved to EN 54-3 and the system meet the appropriate requirements of BS 5839 Part 1 and BS 5939 Part 8.

Applications

The obvious choice for any installation where the fire alarm requires verification by voice, the Fire-Cryer® lends itself to an extremely wide range of applications.

Typical examples include:

Shopping Centres

Most shopping centres have large voice evacuation systems incorporated within the PA system in public areas - but what about the individual units? Fire-Cryer® Plus can ease confusion for the public by instructing them in a concise and intelligible manner what to do in case of emergency.

Places of Public Entertainment

Night-clubs, concert halls and other entertainment venues can often be noisy and dark. Fire-Cryer® can be utilised in conjunction with a pre-alarm such as strobes or a coded message to staff and trained personnel followed by a clear and non-panic inducing evacuation instruction.

Case Study: Odeon Cinemas

Fire-Cryer® Plus multi-message voice sounders are being used by Odeon Cinemas nationwide to ensure that members of the public are not confused by conventional alarm sounders in the event of an evacuation.

Standard, Midi and Maxi Fire-Cryers® have been installed in numerous Odeon cinema complexes. Maxi Fire-Cryers®, with their high-power 116 dB(A) output, are typically positioned behind the screens providing wide coverage for the seating areas. In other areas of the cinema complexes, standard and Midi Fire-Cryers® have been seamlessly integrated with the fire alarm system.

One of the main attractions of Fire-Cryer® for use in applications such as cinema refurbishments is the easy upgrade from the original sounder circuits, as often the existing wiring can be re-used. The units can be fully synchronised and have a low current consumption allowing simple replacement of existing sounders and bells.



Museums & Galleries

The public often ignore evacuation signals. This fact makes voice a vital enhancement to the fire alarm system in public buildings such as museums.

Areas of Mass Transit

The mass evacuation of an airport or railway station due to a false alarm is every facility manager's nightmare. The use of coded messages and time-out function in the Fire-Cryer® Plus enables a period of verification prior to general evacuation.

Lockdown

There is an ever growing demand for lockdown systems to aid the implementation of lockdown or evacuation procedures. Fire-Cryer® Plus can be used as a standalone system or use the existing infrastructure of the fire alarm system, greatly reducing installation costs

Case Study: London Underground

No-one in the Fire industry can doubt the commitment over the past decade of London Underground to improve its fire alarm systems. They have not only introduced leading-edge detection systems but have probably the greatest challenge in evacuation terms. Whilst below ground they have found the need for fully integrated centralised systems; in their overground stations responsibilities they have found that voice enhanced sounders meet their criteria.

The use of coded messages, as a pre-alarm to staff to take up positions and investigate an alarm immediately without initially alerting passengers, was a prerequisite of the first installation of Fire-Cryers® for London Underground.



Applications

Education

The advantage of using multi-message voice sounders in educational establishments is that traditional fire alarms can be mixed with everyday messages such as 'class change' and 'lockdown'. It is common practice for schools to use the fire bells or sounders to announce class changes with the potential for confusion during a fire or routine test.

Case Study: Oasis Academy

Oasis Academy Wintringham has installed over 230 Fire-Cryer® voice sounders to ensure safe evacuation.

The majority of the voice sounders are Mini Fire-Cryers®, which fit discretely beneath the fire detector bases. This means that they are very easy to install and create an overall detector/voice sounder combination with a very low profile.



Commercial Buildings

As a 'distributed amplifier' system, Fire-Cryers® negate the need for large racks of amplifiers and high voltage cabling as used in standard PA/VA systems. Fire-Cryers® are installed on conventional sounder circuits meaning that 7 message voice systems are equally suitable for small and large commercial applications requiring several hundred sounders.

Case Study: Bridgewater Place

The tallest building in the North, Bridgewater Place, Leeds has installed over 300 Mini Fire-Cryer® voice sounders.

Bridgewater Place comprises over 23,000 sq. ft. of office space located side-by-side with 200 high-rise apartments, retail outlets and leisure facilities in a prestigious development. The Mini Fire-Cryers® have been installed in all office accommodation, providing building-wide voice evacuation in the event of a fire.



Healthcare

Prerecorded voice messages are proven to be an extremely effective means of broadcasting evacuation signals thanks to the lack of panic or emotion sometimes present in live announcements.

Clear messaging is vital to safe phased evacuation. Seven prerecorded messages facilitate phased evacuation in complex buildings such as hospitals.

Also suitable for local nurse station alarm, Fire-Cryer® with blue strobes have been delivered into the health sector.

Industrial

The Fire-Cryer® Plus Range incorporates small, base mounted sounders as well as larger horn loudspeakers such as the Maxi Fire-Cryer®. The large sounders lend themselves perfectly to industrial applications.

Case Study: Rolls Royce

Fire-Cryer® has been employed in the historic Rolls Royce Barnoldswick factory to solve a critical alarm problem caused by the confusion of beeps and tones heard on site. Fire-Cryer® now allows staff to easily differentiate between the general fire/evacuation alarm and the life critical acid spill/extractor fan failure alarms.

A combination of standard, Midi and Maxi Fire-Cryers® in a special hi-visibility yellow finish were supplied. This allowed a fully switchable multi-message system to be interfaced with the existing sounder loops on site.



Applications

Case Study: Multilingual Messaging

High-output Maxi Fire-Cryer® voice sounders have been used to solve a challenging voice evacuation project at St. James Wholesale Market in the heart of Bradford. Multi-message voice sounders were identified as significant safety enhancements in the event of an incident at the market. However, justifiable concerns were raised on the question of how to clearly and unambiguously communicate evacuation or emergency messages to those workers whose first language is not English. The market is housed in a large warehouse type building which is open on two sides. Therefore sounders that were loud enough to be heard over the hubbub of negotiating traders and delivery vehicles was of paramount importance.

A site survey identified that not only were high-output sounders necessary to give the required amount of coverage, but also dual-lingual messages would need to be used. Many workers at the site have Urdu as their first language, so to enhance safety Bradford City Council engineers specified dual language sounders.

10 Maxi Fire-Cryers®, each with three English-Urdu messages, were installed to give clear and concise instructions to the workers in the building as to what to do in case of fire or system test.



Voice Messages

With extended memory and an ever growing message library, Fire-Cryer® Plus is suitable for diverse applications. The voice controller will accept inputs from many different types of control equipment, manual inputs and program contacts:

Standard message sets are available for common applications: Please refer to any of the Fire-Cryer® datasheets for full details of the standard message sets listed below:

- Message Set 'A' - Fire
- Message Set 'B' - Lockdown and Security
- Message Set 'C' - Building Protection
- Message Set 'D' - Gas suppression

With 7 messages on one sander, there is plenty of scope for other types of messaging:

- Lockdown procedures
- Intruder Alerts
- Gas leakage and sensing alarms
- Extinguishing gas release warning
- Water Leakage Alarm
- Hazardous area warnings
- Fire door closing warnings
- Industrial safety applications



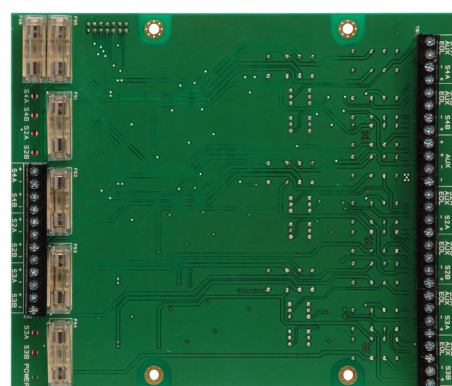
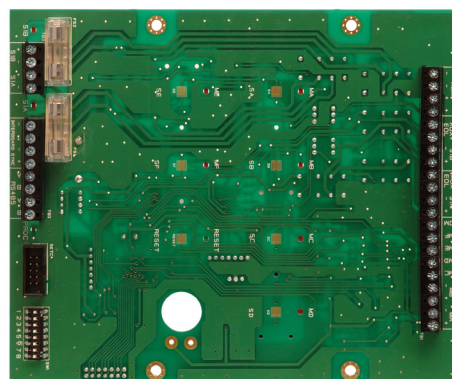
Message Controllers

Multi Message Switching PCB (MMSP)

These interfaces are supplied fitted into the Voice Controllers and provide the ability to trigger up to 7 different messages stored in the Fire-Cryer® voice sounders.

Zone Extension PCB (ZEP)

This optional interface, when fitted with an MMSP, can allow an additional 3 alarm zones (6 sounder circuits) from a control panel to be added.



Boxed Voice Controllers (VMC)

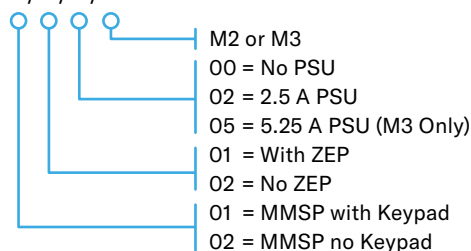
A Voice Controller (VMC) is an MMSP packaged in an enclosure with options for a ZEP, keypad and power supply.



M2 Enclosure - Dimensions 310(h) x 385(w) x 90(d) mm
Maximum battery size of 2.1 A/h at 12 V (x2)

M3 Enclosure - Dimensions 520(h) x 385(w) x 110(d) mm
Maximum battery size of 12 A/h at 12 V (x2)

Part Ref: VMC/**/**/**/**

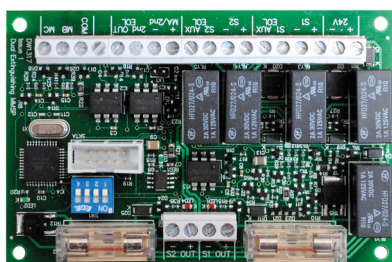


Gas Suppression Systems

Extinguishing Controller

Fire-Cryer® Plus can be seamlessly integrated into many gas suppression systems. Traditionally gas panels have utilised two sounder circuits to give different tones for 1st, 2nd and 3rd stage extinguishant release warnings.

Using the EP2 and a Fire-Cryer® Plus sounder, 1st, 2nd, Hold and 3rd stage messages can be broadcast using the inputs from the extinguishing panel. This provides cost savings for installation and gives a clearly understood message to occupants of the state of the alarm panel.



Lockdown

Lockdown Applications

Vimpex voice sounders are ideally suited for Dynamic Lockdown Alerts. As a standalone system or integrated with the existing fire alarm system.

Vimpex Lockdown solutions can provide a dynamic and cost effective method of broadcasting emergency and security messages.



Vimpex LTD

Star Lane, Great Wakering,
Essex SS3 0PJ, UK

t: +44 (0) 1702 216999
e: sales@vimpex.co.uk

www.vimpex.co.uk

Vimpex Interguard AB

t: (0) 36 37 10 65
e: sales@vimpex.se

www.vimpex.se



Quality System Certificate No. 456
Assessed to ISO 9001



Fire Industry Association
BR/3700064/ISS 4

We reserve the right to change or amend any design or specification in line with our policy of continuing development and improvement.