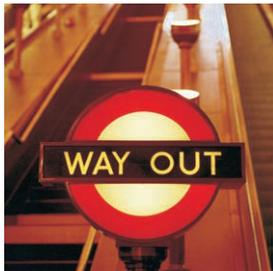


# Fire-Cryer® Voice Enhanced Sounders



**DATASHEET**

**VIMPEX**

Shaping Alarm Technology

# Voice Enhanced Sounders

The Fire-Cryer® voice enhanced sounder has been developed to counteract the ever-increasing problem of audible alarms being ignored. It eliminates any potential confusion by combining the normal sounder signal with a clear and unambiguous voice message.

The Fire-Cryer® can be both heard and understood.

The Fire-Cryer® requires no special wiring and can be retrofitted to existing installations meaning that in-situ wiring can be easily utilised. Fire-Cryer® sounders are fully synchronised and have an exceptionally low current consumption allowing simple replacement of existing sounders and bells.

*“Fire! Fire!  
Please leave  
the building  
now”*



Up to four different messages can be selected from a library of over 60 - with foreign language and bespoke messages also available. The Fire-Cryer's® clarity and high sound output using the existing 2-wire installation offers unmatched flexibility and ease of use.

The need to cater for the broad range of fire protection requirements has led to an extensive English and foreign language message library encompassing a huge diversity of evacuation, alert, test and all clear messages.

## 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 four 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 20mA, and when required, be installed within a deep weatherproof base to IP66.

The sounder system should meet the appropriate parts of British Standards BS 5839 Part 1 & Annex E of BS 5839 Part 8.

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? The Fire-Cryer® can ease confusion for the public by instructing them in a concise and intelligible manner what emergency action should be taken.

### Case Study

The managing agents and the County Fire Brigade of a well-known **Arndale Centre** concluded that whilst they had a central evacuation system operating throughout the centre, the individual units had a variety of tenant's alarms. It was felt that an alarm operating within a shop unit, which may have been a bell or electronic sounder, could cause confusion. It was also felt vital to ensure shoppers could be evacuated from an individual shop unit to the mall before the central voice system drove other shoppers along the malls possibly hindering the evacuation of those within the alarmed shop.



The Arndale management decided that an early voice message alerting customers within a shop unit with a clearly understood message was the ideal way to avoid confusion and possible panic. Since 1999 whenever a shop becomes vacant the new tenants are requested to upgrade with Fire-Cryers®.

To meet these project requirements it was essential that the Fire-Cryer® could operate satisfactorily with all types of control panel encountered in the Centre. The many installations within the centre are providing significant improvements in safety at a fraction of the cost of installing a dedicated system in each unit.

## Places of Public Entertainment

Night-clubs, concert halls and other entertainment venues can often be noisy and dark. Fire-Cryers® 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.

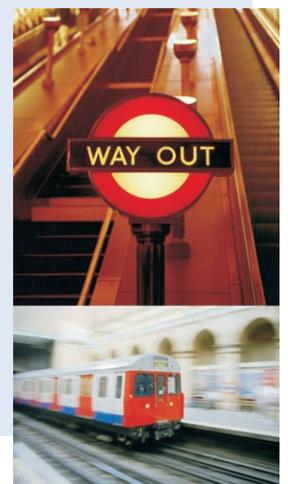
## Areas of Mass Transit

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® enables a period of verification prior to general evacuation.

### Case Study

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 above-ground responsibilities they have found that voice enhanced sounders meet their criteria.

Acknowledging their need to alert and warn passengers as soon as possible, they also have the responsibility to avoid panic. 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 pre-requisite of the first installation of Fire-Cryers® for London Underground. It was also vital that the instruction to passengers to evacuate the station was given within a pre-determined time unless the initial alarm was found as false or malicious and the alarm muted.



# Product Features

## Fire-Cryer®

- Low current - average 20mA
- 4 messages on just 2 wires
- No special wiring, easily retro-fitted
- Fully synchronised over multi-zones
- Extensive message library and coded messages
- Deep base version available to IP66
- Accessories include flush mounting bracket, flashing light bracket and mains pack



## Mini Fire-Cryer®

- Ultra-Slim base sounder to fit industry-standard detectors
- Omni-directional sound output
- Choice of colour to match detectors
- Installer-friendly connections
- Suitable for ceiling or wall mounting
- Front plate for stand-alone use supplied as standard

## Midi & Maxi Fire-Cryers®

Whilst the Fire-Cryer® and Mini Fire-Cryer® are ideally suited for internal use, the Maxi and Midi high-powered Fire-Cryers® are designed for less hospitable environments such as industrial applications, large open spaces such as warehouses and factories, and other areas of public gathering or transit.

- High output up to 116dBA
- Rugged and weatherproof enclosures
- Low current - average 100mA
- Ideally suited for open areas & noisy environments



## Message Selection

With the ability to broadcast four messages on two wires the Fire-Cryer® is fully compatible with existing systems wiring. The VMC (Voice Message Controller) eases retrofitting of the Fire-Cryer® by providing the installer with a fully wired switching interface ready to be installed alongside the fire alarm panel. Also available as a pcb only.



## Specification

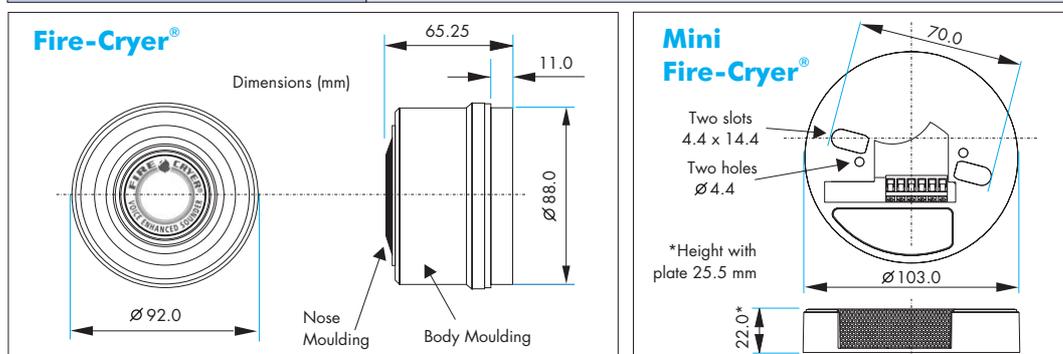
Operating Voltage	Nominally 24Vdc
Current (Typical)	Quiescent 14mA, Message 28mA
Inputs	2x24Vdc from sounder circuit
	1 x 24Vdc auxiliary
Outputs	2 x independently fused @1A
Dimensions (mm)	230x160x80(VMC) 95x110(pcb)
Fixings (pcb)	4x3.5mm snap-in plastic pillars
Connections	Multi-board synchronisation via 2x2 way 2.5mm terminal blocks for loop in/out wiring

# VIMPEX

Shaping Alarm Technology

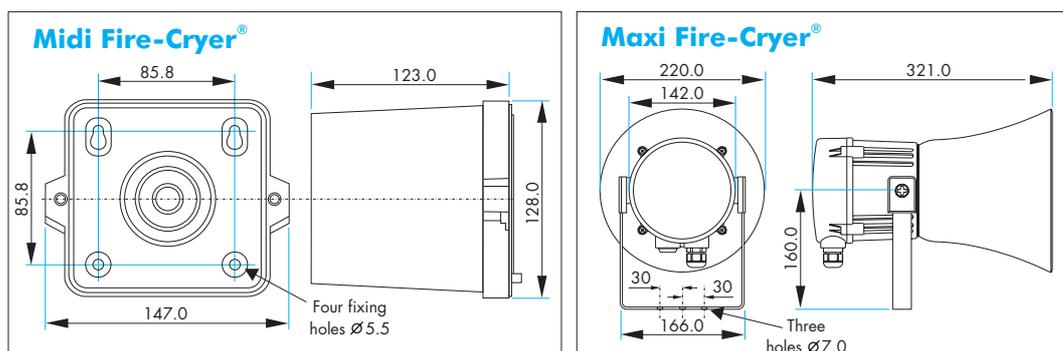
## Fire-Cryer® & Mini Fire-Cryer®

Model	Fire-Cryer®	Mini Fire-Cryer®
Operating Voltage	Nominally 24 Vdc $\pm$ 25%	
Current (Typical)	20mA	20mA
Effective Sound Output (Typ):		
- Alert Fast Sweep to BS5839	100dBA	90dBA
- Voice Message	95dBA	86dBA
Weatherproofing	Standard Base: IP45	For internal use only
	Deep Base (Ext fixings): IP66	
Voice Synchronisation	Via synchronisation interface or Voice Message Controller	
Housing Material	Flame-retardant ABS	
Temperature Range	-25 to +70°C	
Colour	White (with red nose cap) or Red - company logo option	Colours matched to suit leading makes of fire detector
Connections	2x2 way, 2.5mm <sup>2</sup> terminal blocks for loop in/out wiring	



## Midi & Maxi Fire-Cryers®

Model	Midi Fire-Cryer®	Maxi Fire-Cryer®
Operating Voltage	Nominally 24 Vdc $\pm$ 25%	
Current (Typical, Peak, Surge)	100mA, 180mA, 0.4A (25mS)	100mA, 180mA, 0.4A (25mS)
Effective Sound Output (Typ):		
- Alert Fast Sweep to BS5839	110dBA	116dBA
- Voice Message	104dBA	112dBA
Volume control	0-12dB - 2x2 way dip switches	0-12dB - 2x2 way dip switches
Weatherproofing	IP45	IP67
Voice Synchronisation	Via synchronisation interface or Voice Message Controller	
Housing Material	Aluminium /Plastic base	Flame-retardant ABS
Temperature Range	-25 to +55°C	
Colour	Red	Grey
Connections	2x2 way terminal blocks for loop in/out wiring 4 core armoured wire tail 1.5mm <sup>2</sup> x 800mm long	Mounted directly to wall or via electrical box Stainless Steel bracket



## EVACUATE

- AA Fire! Fire! Please leave the building. Fire! Fire! Leave the building.  
AF Fire detected. Keep calm. Leave the building by the nearest exit.  
AK Fire emergency. Please remain calm and evacuate the building immediately.  
AM In the interest of safety, please evacuate the building immediately.  
AN Attention! Attention! Please evacuate this floor immediately.  
AO Attention! Attention! Please leave by the nearest exit.  
AP Attention! Attention! This is a fire emergency. Please evacuate the building.  
AQ In the interest of safety, please evacuate the building.  
AS This is a fire alarm. Please evacuate the building.  
AT This is a fire alarm. Please evacuate the building immediately.  
AU Please evacuate. There is a fire incident.  
AX We have an emergency situation. Please leave the building by the nearest exit. Members of staff will assist you.  
AY This is a fire alarm. Please leave the building. The fire brigade has been called.  
AZ Ladies and gentlemen - due to unforeseen circumstances we must ask you to leave the building by the nearest exit, or as directed by members of staff.  
BA Attention! Attention! An emergency situation has arisen. Please leave by the nearest exit. Do not use lifts or escalators.  
BC An emergency situation has arisen within the stadium. Please leave the stadium in an orderly manner.  
BD Fire emergency. Please evacuate.  
BG This is an intelligent fire warning system. There is a fire in the building evacuate now!  
CN Leave the building immediately  
CQ Attention! Attention! Please evacuate the area. Do not return to or use your car.  
CR Ladies and gentlemen, in the interest of safety this building must be evacuated. Please leave immediately by the nearest exit. Staff will assist you.  
CV Attention! A situation has arisen where we need to clear the building. Please leave by the nearest exit or as directed by staff.  
CY This is a general evacuation alarm, please leave the building immediately and proceed to the Car Park.  
CZ This is a general evacuation alarm, please leave the building immediately, and proceed to your nearest assembly point.  
DB In the interest of safety, please leave the building immediately by the nearest exit as directed by members of staff.  
DC This is an evacuation alarm, please leave the building immediately and proceed to the Car Park.  
DD This is an evacuation alarm, please leave the building immediately, and proceed to your nearest assembly point.  
GF Attention! Attention! Please evacuate the area. Do not return to or use your car.  
TD Fire! Fire! Please leave the building. English then French and then German.  
TG 4 seconds of two tone alert signal  
2 seconds of silence  
"Emergency, please leave the building by the nearest exit"  
2 seconds of silence  
TI Fire, Fire Evacuate blue zone.  
TJ Fire, Fire Evacuate yellow zone.  
TK Fire, Fire Evacuate green zone.  
TL Fire, Fire Evacuate red zone.  
TM Fire, Fire Evacuate orange zone.

## ALERT

- AB This is a fire alert. This is a fire alert. Await further instructions. Await further instructions.  
AW Fire! Fire! Do not enter.

## ALL CLEAR

- AD All clear. All clear. No further action required.  
AR The fire emergency is cancelled. Please return to your place of work.  
BE The fire test has been completed. Please return to your place of work.  
BF The fire emergency is now cancelled. We apologise for any inconvenience.

## STANDBY

- AL This is a fire warning. Please remain calm, stay where you are. Await further instructions.  
AV Please stand by. There is a fire incident.  
CU Attention! An incident has been reported. Please stand by for further instructions.

## GAS

- AH Halon gas release imminent. Vacate area immediately.  
AI Carbon dioxide gas release imminent. Vacate area immediately.  
AJ Extinguishant gas release imminent. Vacate area immediately.  
BM Extinguishant gas release imminent. Please evacuate the area.  
BN Extinguishant gas system discharged.  
BO Extinguishant gas discharged. Do not enter.  
BU Toxic gas has been discharged. Evacuate the area immediately.  
BV Please evacuate the area. Toxic gas released. Toxic gas released.  
CE Excessive carbon monoxide levels have been detected. Please leave the area immediately.  
CF Attention! Attention! Gas detected. Please evacuate the area.  
CG First stage extinguishant release warning.  
CH Second stage extinguishant release warning.  
CI Extinguishant release imminent.  
CJ Extinguishant released.  
CO Please leave the room immediately; gas release imminent. Please leave the room and close the door. Gas release in 10 seconds. Please leave the room and close the door immediately. Gas release in 5 seconds. Gas released; do not open the door unless absolutely necessary. Gas released.  
SR Inergen gas discharge imminent. Please evacuate the area.  
SS Inergen gas system has been discharged  
ST Inergen gas discharged. Do not enter.  
SU FM 200 gas discharge imminent. Please evacuate the area.  
SV FM 200 gas system has been discharged.  
SW FM 200 gas discharged. Do not enter.  
SX Argonite gas discharge imminent. Please evacuate the area.  
SY Argonite gas system has been discharged  
SZ Argonite gas discharged. Do not enter  
TA FE-36 gas discharge imminent. Please evacuate the area.  
TB FE-36 gas system has been discharged.  
TC FE-36 gas discharged. Do not enter.  
TN Pyrogen extinguishant gas release imminent. Vacate area immediately.  
TO Pyrogen extinguishant gas release imminent. Please evacuate the area.  
TP Pyrogen extinguishant gas system discharged.  
TQ Pyrogen extinguishant gas discharged. Do not enter.

## CODED WARNINGS

- GI Staff 200  
CK Would Mr Marshal please report to the office.

## TEST MESSAGE

- AC This is a fire alarm test. No action required. No action required.  
AE Fire alarm test now complete.  
AG Alarm test only. No action required.  
TF This is a fire alarm test. No action required. No action required First in Swedish then in English.

## WATER ALARM

- BH Water detection alarm activated. Immediate attention required.

## WARNING

- BB Attention! Fire shutter closing.  
BW You are entering a hazardous area. Personal protective equipment should be worn.  
BX This is a hazardous area. Authorised personnel only.  
BY Fire shutter closure imminent. Please stand clear.  
BZ Attention. Attention. Fire shutter closing.  
CA Warning. Fire door closing. Stand clear.  
CB Danger. Fire door closing. Please stand clear.  
DA This is a site alarm, please stay in your Office and close all windows.  
DE Caution, train approaching  
DF Caution there is a train approaching

## INSTRUCTION / INFORMATION

- BI This is a no-smoking area. Please extinguish all smoking material.  
BJ This is a no-smoking area. Please refrain from smoking.  
BK No smoking please - this is a no smoking area.  
BL This is a no-smoking area. Please refrain from smoking, thank you.  
CC This is a class change announcement.  
CD End of period.  
TH Unsynchronised bell sound.  
CL Attention! Attention! Would all managers report to the office.  
CM This site is private property. Please leave immediately  
CP Fire alarm is sounding. Close the door to the service corridor.  
CS This is private property. You are under CCTV surveillance. Leave immediately.  
CT This site is private property. You are being recorded by CCTV cameras and the police have been contacted.  
DG This is a staff call, all managers to report to their offices.

## DANGEROUS / HAZARDOUS AREAS

- BP Attention. Attention. Hazardous area. Do not enter.  
BQ Warning. Dangerous area. Do not enter.  
BR Danger. Danger. Do not enter.  
BS This is a hazardous area. Do not enter.  
BT This is a dangerous area. Do not enter.