



Installation

- The message controller interfaces standard fire alarm and gas extinguishing control panels to Klaxon's Voice-Enhanced Nexus & Sonos sounders and beacons. The interface detects the state and sequence of the panel sounder outputs and activates a pre-programmed sequence of messages and beacon flashes in the sounders via a simple two-core cable connection.
- The interface requires an external 24V DC supply ('+AUX-'). This supply can usually be taken from the 24V Auxiliary Output from the panel. The supply must sufficiently rated to power all the devices connected to the output of the interface.
- The Sounder 1 (1st Stage Sounder) Output of the fire alarm panel should be connected to the '+SND1-' input terminals of the interface.
- The Sounder 2 (2nd Stage Sounder) Output from the fire alarm panel should be connected to the '+SND2-' input terminals of the interface.
- The Voice-Enhanced sounders are then connected to the '+O/P1-' and/or '+O/P2-' terminals of the controller. Each chain of sounders should be terminated with the end-of-line resistor specified for the fire alarm panel being used.

Controls:

a. Fire Panel Selection

The interface controller will work with all common types of fire panel. There is a 5-way dipswitch inside the interface that is used to describe the fire panel being connected to.

N.B. These switches must be set *before* power is applied to the '+AUX-' inputs of the Klaxon controller; the controller will not acknowledge switch changes after power has been applied. DIP 5 determines the panel type being used (standard FIRE or GAS EXTINGUISHANT).

DIP 5 ON (STANDARD FIRE TYPE):	
DIP 3 OFF & DIP 4 OFF:	Alert: 0.5s ON/ 0.5s OFF
DIP 3 OFF & DIP 4 ON:	Alert: 1s ON/ 1s OFF
DIP 3 ON & DIP 4 OFF:	Alert: 2s ON/ 2s OFF
DIP 1 and DIP 2 have no effect (please leave OFF)	

DIP 5 OFF (GAS EXTINGUISHANT TYPE):	
DIP 1 ON:	Alert (Stage 1): Continuous (SND1)
DIP 1 OFF:	Alert (Stage 1): 1s ON/1s OFF (SND1)
DIP 2 ON:	Gas Hold: 1s ON/2s OFF (SND2)
DIP 2 OFF:	Gas Hold: 1s ON/3s OFF (SND1)
DIP 3 ON:	Gas Hold: Panel reverts back to Alert (after Evacuate)
DIP 3 OFF:	Gas Hold: See DIP 2
DIP 4 ON:	Gas Hold: 'Quick Hold' - doesn't wait for 3s after initial '1' (see DIP 2 OFF)

Manufacturer	1-2-3-4-5	(1 = ON)
Advanced Electronics	1-1-0-0-0	
Kentec	1-0-1-0-0	
Kidde	0-0-0-0-0	
	or 0-0-0-1-0	

Standard Fire Mode:

In FIRE mode (DIP 5 ON) only the '+SND2-' input is read by the interface unit. If you only want to use one sounder circuit then '+SND2-' and '+O/P2-' should be used ('+SND1-' can be left disconnected).

Gas Mode:

In GAS mode (DIP 5 OFF) both the '+SND2-' and '+SND1-' inputs are read by the interface unit. If you only want to use one sounder circuit then '+O/P2-' should be used.

Fault Indication:

Should a fault occur (e.g. damage, loss of power, etc.) the interface unit places a 1kΩ resistor across the '+SND2-'/'+O/P2-' terminals. This will induce a sounder circuit 'overload' or 'short-circuit' fault at the fire alarm panel.

End-of-Line Resistance:

Under normal conditions the '+SND2-' terminals are connected directly to the '+O/P2-' terminals. Similarly, the '+SND1-' terminals are connected directly to the '+O/P1-' terminals. This allows the fire alarm panel to monitor the sounder circuits as normal. Each sounder circuit should be terminated with the end-of-line resistor specified in the panel installation manual.

In an alarm condition (e.g. 'alert', 'evacuate', etc.) the interface unit breaks the connections between the '+SND-' input terminals and the '+O/P-' output terminals. The interface unit then has its own connection to the sounder circuit(s).

N.B. During this time the fire alarm panel will no longer be able to 'see' the actual end-of-line resistors.

You should place 'dummy' end-of-line resistors in the terminals marked 'STG2 EOL' and 'STG1 EOL'. The values of these resistors will be the same as the end-of-line resistors used at the end of the sounder circuit(s).

Technical Specification

Supply Voltage Range	17-28V DC
Total Sounder Load	1A Max per output
Current	45mA (active alarm), 16mA (quiescent)
Remote Tone Switching	Provision for 4 alarm stages (plus a default warning stage)
Operating Temperature	- 25°C to +70°C
Casing	Polycarbonate

The European directive "Waste Electrical and Electronic Equipment" (WEEE) aims to minimise the impact of electrical and electronic equipment waste on the environment and human health. To conform with this directive, electrical equipment marked with this symbol must not be disposed of in European public disposal systems. European users of electrical equipment must now return end-of-life equipment for disposal. Further information can be found on the following website: <http://www.recyclethis.info/>.