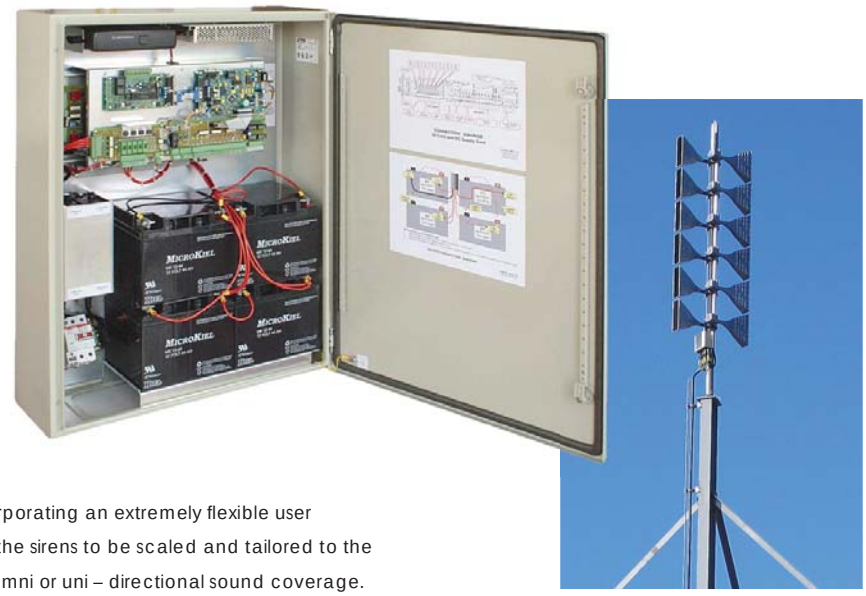


ES Siren Superior

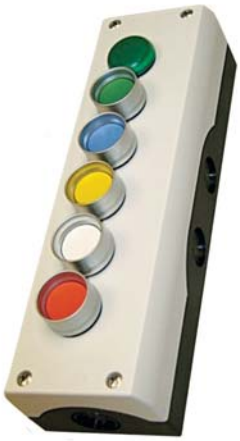
The ES siren superior range provides a sophisticated, robust and resilient solution to address wide area mass alert signalling for all industrial, civil, commercial and environmental requirements.

The products are of modular construction incorporating an extremely flexible user configuration software package which allows the sirens to be scaled and tailored to the user's most complex specific needs including omni or uni – directional sound coverage.

Main Features

- Audibility range between 106db @ 30metres for the smallest unit to 127db @ 30metres for the largest unit. Sirens in this range in increasing order of sound output are the ES1/2S, ES1/3S, ES2S, ES3S and ES4S units.
- 16 user selectable & configurable emergency signals.
- Storage for up to & selectable 400 pre-recorded voice messages. (Voice files are stored as PCM-CCITT 8 kHz 8 bits mono).
- Live PA via a 600 ohm balanced & isolated input.
- Battery operated from an integral battery pack to overcome AC power failure.
- User definable schedules for time/date signalling.
- Silent test facility to minimise nuisance signalling to test the siren.
- Full control and fault diagnosis of a single or multiple units via an RS485 interface of up to 1.5km distance from the siren.
- Simple control and fault reporting via 8 VFC opto-coupled inputs and relay output(s).
- Supports a radio & modem for remote operation via bi-directional integrated RS232 interface.
- Supports a GPS clock for accurate time synchronisation for schedules via an integrated RS232 interface.
- Class D 375W amplifier used in the output with self healing short circuit, thermal & over current protection.
- Option of driving 100V line driver horns in stead of or as well as the standard horns for hazardous area operations and mass coverage within a building.
- Active alarm signal or PA output via a set of N/O & N/C relay contacts for control of and supplementary devices. (i.e. Strobe beacon).
- Four configurable VFC opto-coupled monitor inputs. (i.e. AC Power, Cabinet door open etc).
- Four configurable relays with changeover contacts used to monitor the activities of the unit.
- Siren activity and fault report log.
- Minimum alarm signal operating time of at least 6 minutes after a 7 day AC power loss.
- Supports CMC 4 optional engineer's activation & supervision panel with microphone input facility.
- Control cabinet constructed from coated steel as standard or stainless steel on request, (800 x 600 x 250mm), which provides an environmental rating of IP65 and the siren horns are manufactured of cast aluminium.
- Power supplied by an integral 48Vdc battery pack and an 88-132/176-264Vac @ 47–63Hz power source.
- Operating temperature range of -20 to +60 degrees C.

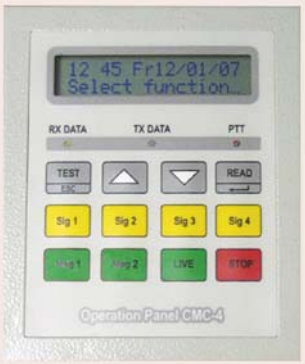
Electronic Sirens – Superior Range – HMI Interfaces



SIP-51 HMI

The basic switch & indicator HMI unit provides a means of siren control and basic supervision for a single or multiple superior range siren system.

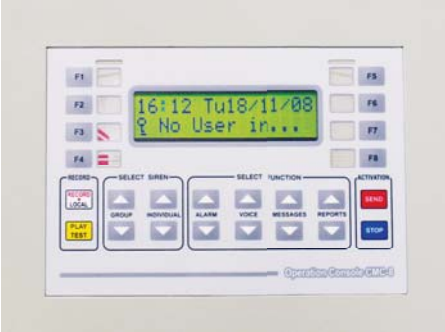
- Activation of up to 5 alarm signals or pre-recorded messages and silent test.
- Silent test result displayed on a single indicator beacon which has been connected to a programmed relay output to indicate the state of the siren on its controller.
- Smaller units available with less switches/beacons.
- Environmental rating of IP65.



CMC-4 HMI

The CMC-4 HMI unit provides a means of siren control and supervision for a single or multiple superior range siren system via its RS485 communication interface.

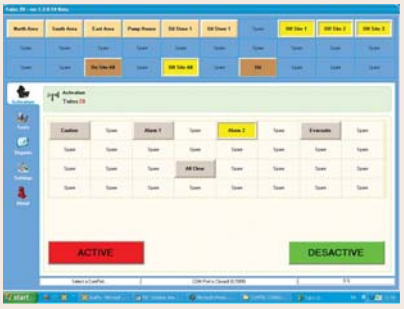
- Control of up to 4 alarm signals & 4 pre-recorded messages via its keypad and integral 2 line 16 character LCD backlit module.
- Microphone input connector for live voice or record & play voice messages.
- Silent test activation facility and results displayed via its LCD module.
- Power for the unit is provided by the RS485 interface.
- Magnetic coded switch to enable signal and voice activation functions.
- May be linked via a bi-directional radio link to the siren controller instead of a hardwire link.
- Can be located in the siren control panel or on a convenient wall location.
- All configuration information is stored in non-volatile memory.



CMC-8 HMI

The CMC-8 HMI unit provides a means of siren control and supervision for a multiple superior range siren system where the use of a PC is not appropriate for the environment or where simple activation switches next to the control unit are also required.

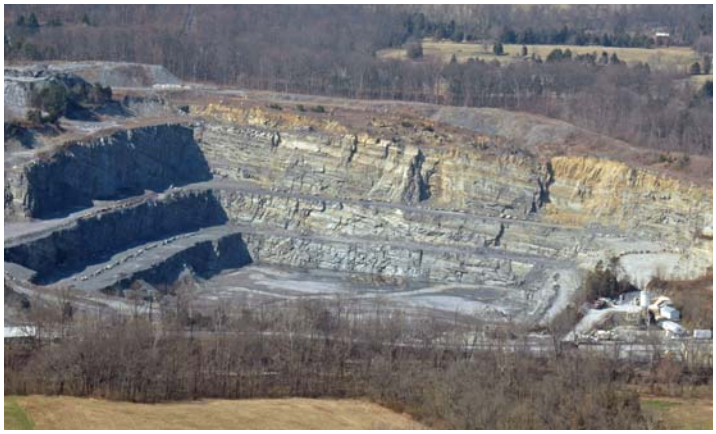
- Control of up to 16 alarm signals & 400 pre-recorded messages.
- Microphone input connector for live voice or record & play voice messages.
- Silent test activation facility and results displayed via it multiple line LCD module.
- User definable legends.
- Master volume control.
- User definable siren group allocation.
- Event & test logs interface to a printer.
- Up to 8 programmable VFC inputs.
- Suitable for wall or desk mounting.
- All configuration information stored in non-volatile memory.
- Magnetic coded switch to enable signal and voice activation functions.
- May be linked via a bi-directional radio link to the siren controller instead of a hardwire link.



TALOS 20 HMI Software for PC

The software which operates under Microsoft windows allows the means of control and supervision required for a complex multiple superior range siren system.

- Control of up to 16 alarm signals & 400 pre-recorded messages.
- Live voice control facility.
- Silent test activation facility and result display.
- User definable legends.
- Master volume control.
- User definable siren group allocation.
- Event & test logs to file or printer.



Electronic Sirens – Superior Range – Radio Control

Radio and Control Equipment

Siren radio communication equipment:

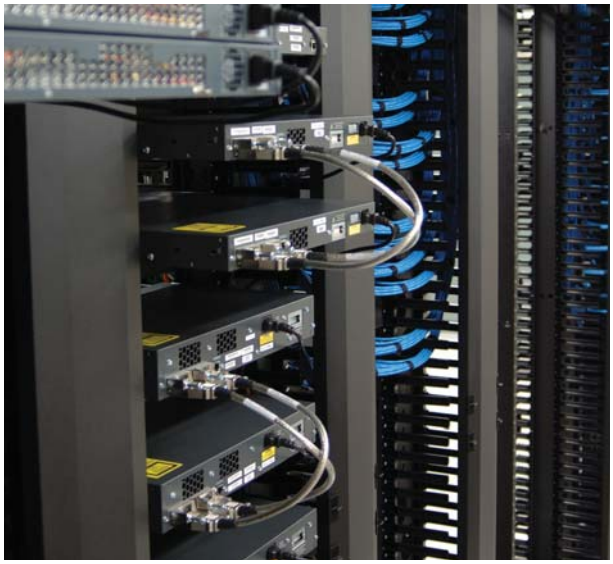
- Motorola GM340 Databox. Transceiver. Operating frequencies VHF 136-174 MHz, or UHF 403-470 MHz.
- Antenna. 3-Element YAGI.
- TK401 Data Modem 1200-4800 bps.
- Cables and installation accessories.

Base station communication equipment:

- Simplex transceiver for voice and DATA computer connection.
- Operating frequencies VHF 136-174 MHz, or UHF 403-470 MHz.
- RF power 1 to 25 W programmable.
- RJ45 input for Motorola desktop Microphone (HMN-3000B) for live voice announcements.
- External battery connection for continues operation when AC failure.
- Integrated power supply 120W - 110/230VAC for continues operating and charging battery.
- TK401 Radio-modem 1200 - 4800 Bps Transparent Mode.
- 2U 19" Rack Mountable Cabinet, with temperature control fan (Wall mounting cabinet optional).
- Antenna VHF (3DB) or UHF (5 DB) Collinear.
- 30 m coaxial antenna feeder.

Control Station:

- Workstation. Pentium 400MHz 64 bit processor, keyboard, mouse, and CD Rom drive.
- 17 inch touch screen.
- UPS 30 minutes.
- Printer: Dot Matrix – Sheet Feeder.
- Desk microphone.



Sound Coverage Chart

Siren Model Audibility (db)	Configuration Omni or Uni Directional	Distance from Siren (Metres)						
		30	100	200	400	800	1000	1500
ES1/2 S	O	106	90	80	70			
ES1/3 S	U	115	98	88	78	68		
ES2 S	O	115	98	88	78	68		
ES2 S	U	118	100	90	80	70		
ES3 S	O	121	103	93	83	73		
ES3 S	U	124	107	97	87	77	74	67
ES4 S	O	124	107	97	87	77	74	67
ES4 S	U	127	110	100	90	80	77	70