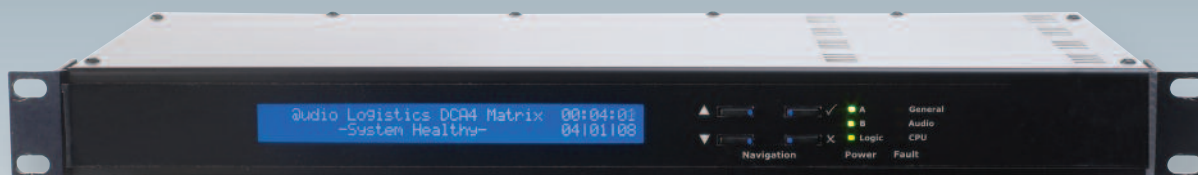


# Fire



## CFDCA4

### Voice Alarm Controller

**COOPER** Safety

**For most installations, this fixed-function networked voice alarm controller provides the ideal solution. From a single unit covering a few zones, to twenty units networked together forming a distributed 80 zone system, the CFDCA4's flexibility lends itself to most systems and topologies.**

The CFDCA4 has four zone outputs, all-call fire microphone ports, a data control port for networking and configuration, high priority microphone ports, two digital message stores (allowing six messages to be held in hardware), a fire alarm interface, low priority zoned microphone ports, and three stereo music inputs.

The front panel LCD and keypad allows the selection of volumes, music sources and full configuration including fire cause and effects, with three levels of password protection; as well as providing access to the 99 entry event log.

In the unlikely event of processor failure the two firemans' inputs can still access the system zones on an "All Call".

### Features

- > Meets or exceeds EN54-16, BS5839pt8:2008
- > Four local zones, networkable to 80
- > 6 sounder circuit inputs plus reset
- > Simplified rack cable management
- > 99 Entry event log
- > PA and Background music functions integrated
- > 6 high quality messages available
- > 64 Network 'virtual contacts'
- > Comprehensive Service and Engineering functions
- > Touch Screen front end available

## Technical Specifications

|                             |                                   |
|-----------------------------|-----------------------------------|
| <b>Audio Performance</b>    |                                   |
| Matrix                      |                                   |
| Configuration               | 5x4                               |
| THD+N                       | <0.01%                            |
| Bandwidth                   | 40Hz 26KHz +0-3dB                 |
| <b>Message store</b>        |                                   |
| Stores                      | 2                                 |
| Memory                      | 16Mb                              |
| Sample depth                | 16bit                             |
| THD+N                       | 0.05%                             |
| Bandwidth                   | 0.45Fs                            |
| Sample Rates                | 11k025, 16K, 22k05, 32K, 44k1     |
| Messages                    | 3 per store variable length       |
| <b>Outputs</b>              |                                   |
| Zones                       | 4                                 |
| Level                       | 0dBV                              |
| Type                        | Electronically balanced           |
| <b>Fire Alarm Interface</b> |                                   |
| Inputs                      | 7 (6 alarm 1 RESET)               |
| Type                        | 24V opto-isolated sounder type    |
| Connector                   | RJ45x2 (break out board supplied) |
| Fault                       | Relay output, open on Fault       |
| <b>Power Supply</b>         |                                   |
| Voltage                     | 18 -36V DC                        |
| Current                     | 90mA @24V                         |
| Inputs                      | 2 off                             |
| Connector                   | 2.1mm DC Power                    |
| <b>Standards Compliance</b> |                                   |
| EMC                         | EN55103-1, EN55103-2              |
| LVD                         | EN60065                           |
| Product Family              | EN54-16                           |

|                          |                                     |
|--------------------------|-------------------------------------|
| <b>Audio Inputs</b>      |                                     |
| Fire Microphone          | x2                                  |
| Control Type             | Contacts x 4                        |
| Connector                | RJ45                                |
| Supply                   | 24V 100mA                           |
| Audio                    | 0dBV Balanced                       |
| <b>Low priority Mic</b>  |                                     |
| Control Type             | Logic x 4                           |
| Connector                | RJ45                                |
| Supply                   | 24V 100mA                           |
| Audio                    | 0dBV Balanced                       |
| <b>High Priority Mic</b> |                                     |
| Control Type             | Logic x 4                           |
| Connector                | RJ45                                |
| Supply                   | 24V 100mA                           |
| Audio                    | 0dBV Balanced                       |
| <b>Network port</b>      |                                     |
| Control Type             | RS422                               |
| Connector                | RJ45                                |
| Supply                   | 24V 250mA                           |
| Audio                    | +4dBV Balanced                      |
| <b>Music Port</b>        |                                     |
| Connector                | Stereo Phono                        |
| Control                  | menu                                |
| <b>Messages</b>          |                                     |
| Control                  | x6                                  |
| <b>Monitor Tone</b>      |                                     |
| <b>Physical</b>          |                                     |
| Height                   | 44.5mm (1u)                         |
| Width                    | 483mm (19")                         |
| Depth                    | 200mm                               |
| Weight                   | 1400 g                              |
| Material                 | Stainless steel, extruded aluminium |
| Colour                   | Natural / Black                     |

### Fire Alarm Interface :

The fire alarm interface is compliant with BS5839pt8:2008; its six inputs can be directly connected to reverse-monitored sounder circuits. In line with the standards a separate reset line is required to de-latch the message triggers. For complete disaster recovery, the fire alarm should be connected locally to the zones that the matrix controls; secondary causes-and-effects, such as alert messages, can then be distributed around the network using virtual contacts. Built-in synchronisation means clear, intelligible messages even in difficult environments and from multiple sources.

All messages on the matrices are stored as 16 bit Windows.wav format files, simple software is provided to up-load these messages to the Flash memory within the controller, where they are check-summed and continuously monitored.

The fire interface may also be controlled via the serial port on each matrix for greater system integration.

### Service and Maintenance :

Voice Alarm systems require regular system testing, the CFDC44 allows TEST messages to be directed to specific zones, or a WALK TEST can be initiated, saving noise pollution when commissioning systems. There is also an optional service date function which will place the system in fault if the service date is exceeded. Remote monitoring and logging or email on fault options are also available.

### Connections :

The use of Cat5 patch leads reduces the build labour on all systems and allows easy colour coding of functions, the power and music inputs use industry standard connectors for ease of replacement.

#### Cooper Safety

Wheatley Hall Road, Doncaster, South Yorkshire DN2 4NB

www.cooperfire.com

#### Sales

T: +44 (0)1302 303 999

F: +44 (0)1302 303 333

E: sales@cooperfire.com

#### Technical

T: +44 (0)1302 303 350

F: +44 (0)1302 303 332

E: techsupport@cooperfire.com

#### Export

T: +44 (0)1302 303 344

F: +44 (0)1302 303 345

E: export@cooperfire.com