

CF1000VDS Range



Approved to the latest: EN54 Pt2, Pt4 & Pt13

CF1100VDS - Control Panel

Overview

The Cooper CF1000VDS range is available as a high specification 1 or 2 loop intelligent addressable control panel, offering sophisticated functionality with simple end user operation.

The simplicity of operation, powerful cause and effect programming capability and competitive pricing make the system suitable for a wide range of small to medium sized projects.

CF1000VDS uses soft addressing to minimise installation time and remove the potential for error associated with manual addressing.

These panels can operate as a stand alone panel or as part of a network with the Cooper range of CF3000 panels or other CF1000VDS panels (additional network card required).

The CF1000VDS range of panels have an integral power supply and are supplied with batteries as standard.

An extensive range of compatible intelligent addressable system ancillaries are available to work with the CF1000VDS range all of which incorporate an integral short circuit isolator to provide maximum protection against short circuit faults on the loop.

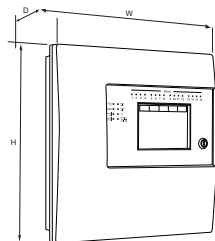
Features

- Available in 1 and 2 loop versions
- Up to 200 addresses per loop
- Full network capability up to 126 panels
- Soft addressing
- Large versatile touch-screen user interface
- Multi-language selection capability
- Integral battery and power supply
- Flexible cause and effect programming

Benefits

- Simple to operate end user touch-screen interface
- Flexible distributed network capability
- Full range of compatible accessories
- Easy to design system cause and effect using site installer software
- Full system integrity with Cooper developed protocol

Dimensions



	H (mm)	W (mm)	D (mm)
Panel	375	357	95
Cutout	345	325	50

Technical Specification

Code	CF1100VDS	CF1200VDS
Description	1 Loop Control Panel	2 Loop Control Panel
Standards	EN54 Pt2,1997, A1:2006, EN54 Pt4,1997 A1:2002, A2:2006, EN54 Pt13: 2005	EN54 Pt2,1997, A1:2006, EN54 Pt4,1997 A1:2002, A2:2006, EN54 Pt13: 2005
Specification		
Number of Loops	1	2
Addresses per Loop	200	200
Number of Conventional Sounder Circuits	2 monitored for open and short circuit (max 1.5A combined)	2 monitored for open and short circuit (max 1.5A combined)
Auxiliary Fire Routing Equipment Output (Monitored)	24V dc 30mA (max)	24V dc 30mA (max)
Auxiliary Fire Protection Equipment Output (Monitored)	24V dc 30mA (max)	24V dc 30mA (max)
Auxiliary Fault Routing Equipment Output (Monitored)	12V dc 30mA (max)	12V dc 30mA (max)
System Operating Voltage	24V dc (nom)	24V dc (nom)
Mains Input Supply	230V ac +10% / -15%	230V ac +10% / -15%
Class Change Facility	Terminals for connection of external contacts, can also be instigated via input interface	Terminals for connection of external contacts, can also be instigated via input interface
Auxiliary Relay	1 set of changeover contacts operate in event of fire condition	1 set of changeover contacts operate in event of fire condition
Output Ports	RS485, RS232 for connection of repeaters etc	RS485, RS232 for connection of repeaters etc
Standby Duration	Dependant on loop loading and battery configuration	Dependant on loop loading and battery configuration
Battery	2 x 7Ah	2 x 7Ah
Environmental		
Operating Temperature	-5°C to +40°C	-5°C to +40°C
Humidity (Non Condensing)	0 to 75% RH	0 to 75% RH
Physical		
Construction	Back Box - Steel	Back Box - Steel
Dimensions (H x W x D)	375mm x 357mm x 95mm	375mm x 357mm x 95mm
Weight	8kg	8kg
Ingress Protection	IP30	IP30
Cable entries	Top: cable knockouts (20mm) Back: cable aperture	Top: cable knockouts (20mm) Back: cable aperture
System Networking	Fully Networkable up to 126 panels (requires additional network card, per panel)	Fully Networkable up to 126 panels (requires additional network card, per panel)

Product Codes

Code	Description
CF1100	Intelligent Addressable 1 Loop Control Panel
CF1200	Intelligent Addressable 2 Loop Control Panel
CF1100VDS	Intelligent Addressable 1 Loop Control Panel (VDS Approved)
CF1200VDS	Intelligent Addressable 2 Loop Control Panel (VDS Approved)
NC	Add to end of product code if network card required
DF61NETKIT	Network Kit (retro fit)
CF3000PRG	Passive Repeater Panel
CTPR3000	Touch-Screen Repeater Panel
MFALOG	Fire Alarm System Log Book

Installation

1. Panel is designed for surface or recessed mounting (without the need for an additional bezel).
2. Cable entry is by means of top entry knockouts in the metal back box, along with a substantial rear entry cutout.
3. Panels are wall mounted via keyhole/slot mounting holes on back of housing.
4. Key operated hinged lockable door provides access to all internal wiring.
5. Cable entry can either be top or rear.
6. Mains input protection is provided by integral fuse.
7. All external wiring should be in accordance with relevant section of latest edition of BS5839 Pt1.
8. Comprehensive installation and operation manual provided with each system.

System Functionality

1. Panel has 3 modes of operation, normal mode, user mode and engineer mode.
2. User maintenance and engineer modes can only be accessed by entering relevant pass codes.
3. User mode allows access to system test functions, enable and disable menus, view analogue level menus and functions such as evacuate, silence alarms and reset.
4. Engineer mode allows alteration of system configuration and programming of site specific data such as device text and sounder programming.
5. Engineer mode also allows adding and removal of devices and alteration of existing text.
6. CF1000VDS range is designed to ensure simplicity of future expansion. If an additional device is added after the system has been programmed, the panel will allocate the next available address, it will not alter any of the existing address number allocation thus enabling simple updating of "as fitted" drawings etc. Similarly if a device is removed, the relevant address is saved as a spare address for future use, the addresses of the remaining devices are not affected.
7. All devices are soft addressed during commissioning however once allocated, addresses are locked until manually altered thus enabling simple system additions and deletions without affecting other addresses.
8. In event of an external short circuit occurring, short circuit isolators on output of the devices nearest to each side of the short circuit open thus isolating the short circuit. The panel then drives communication from both ends of the loop thus maintaining full communication with all devices.

User Interface

1. The main element of the user interface with CF1000VDS range is a large (120mm x 90mm visible area) touch-screen display, which provides comprehensive user information and also acts as a multi-functional keypad. With other more basic systems, the user is limited to a small number of dedicated push buttons and consequently system interaction is restricted and complicated.
2. Comprehensive context sensitive help information is provided throughout the menus to assist unfamiliar users with system operation.
3. The CF1000VDS range touch-screen display automatically reconfigures to suit the selected function, for example, if the change device text menu option is selected, the touch-screen is automatically formatted as a full QWERTY keyboard to enable fast and simple text entry.
4. As well as a large format LCD display providing full system status information, the panel incorporates 16 traditional zone indication LED's to provide clear information about the status and spread of a fire even to a user who is completely unfamiliar with the operation of the system. In addition there are a number of system status LED's designed to give clear status information to non technical users.
5. Audible buzzer with mute facility.
6. Hinged lockable door provides access to all internal wiring and components.

Detection Capacity

1. Up to 200 addresses per loop which can be a mixture of callpoints, detectors, interfaces or loop sounders.
2. CF1000VDS range of panels can be networked with all Cooper intelligent addressable and wireless panels.

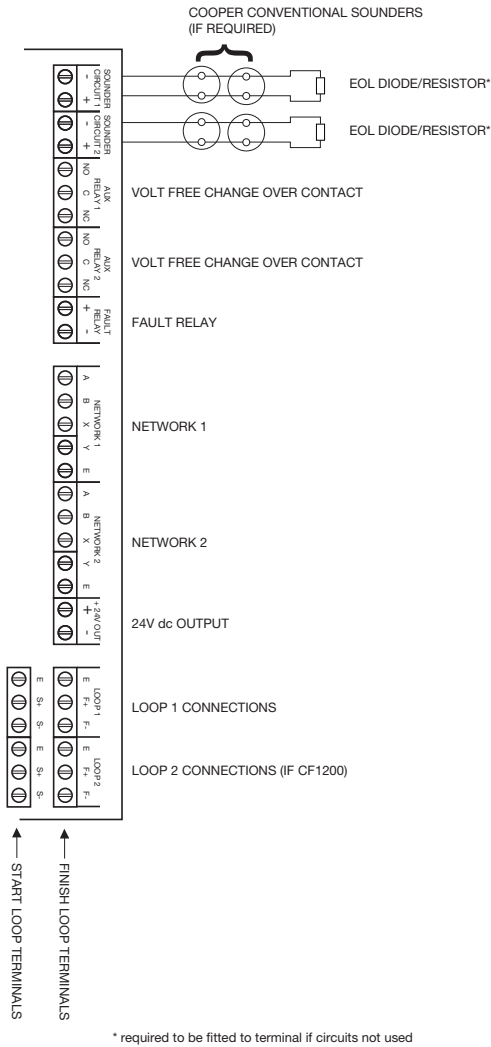
Alarm Capacity

1. Up to 80 loop powered outputs per loop (60 sounders/beacons and 20 I/O units).
2. 3 stages of cause and effect programming per output device.
3. 0.8A of panel connected conventional sounders.
4. Additional conventional sounders can be connected via loop mounted CSC354 units.

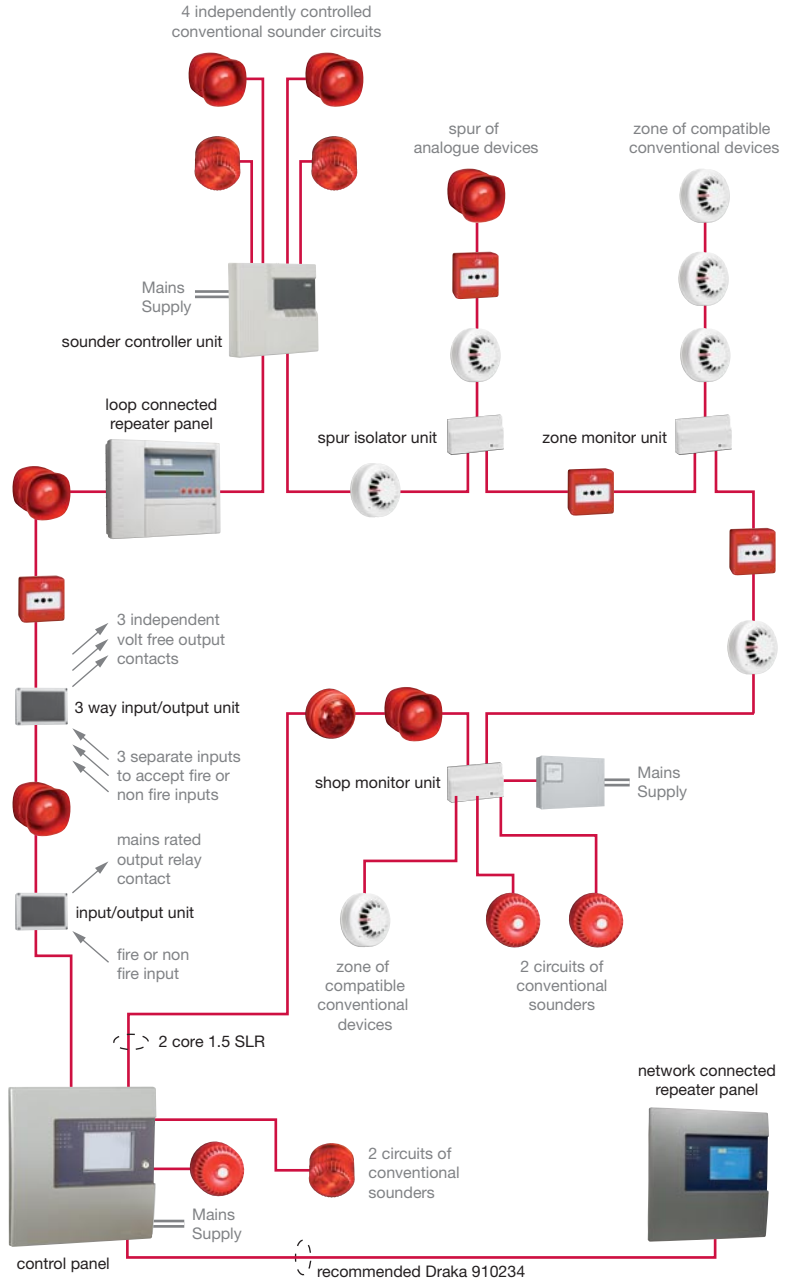
Interface Options

- Day night mode override via external switched signal (can be a timer).
- Multiple Programmable remote inputs can be set:
 - Override of day night mode setting
 - Photo-thermal detectors go to thermal only.
 - Rate of rise detectors go to fixed high temperature mode.
 - High temperature heat detectors go to rate of rise mode.
- T1 and T2 timer.
- HMO facility.
- Comprehensive cause and effect programming.
- Test per zone or address.
- Alarm verification per zone.
- Coincidence detection.
- Disablement of pre assigned group of addresses.
- Class change.
- Non latching zone input.
- Evacuate.
- 2 Conventional sounder circuits provided.
- Zone monitor units can be used to connect zones of suitable conventional detectors or loop powered beam detectors.
- Sounder circuit controllers can be used to provide additional conventional sounder circuits without wiring back to main panel.
- Mains rated input/output unit available.
- 3 way 24V dc rated input/output unit available.
- Spur isolator available to allow spurs of intelligent addressable devices.
- Compact input and output modules available.
- Shop unit interface allows the connection of a conventional detection zone along with a power supply and 2 conventional sounder circuits, ideal for linking small self contained units onto a main intelligent addressable control panel.

Standard Panel Connections



Typical System Architecture



System Networking - CF3000, CF1100 & CTPR3000



CF3000 and CF1000VDS systems can both be networked together. Up to 126 CF3000 panels, CF1000VDS range of panels and low cost repeaters can be networked together to operate as a single networked system.

To achieve this each panel must be fitted with a network card (optional extra). When operating as a networked system all fire and fault event information can be displayed at every panel.

Panels can be configured by service engineers to control whether fire and fault information from each panel is transmitted around the network or not. Silencing and resetting of alarms can also be carried out from any panel on a networked system. Networked panels are connected using a loop topology as illustrated.