



# CAD-150-4

# CAD-150-8

# CAD-150-8-PLUS

Four and Eight Loop Control Panels



## Description

Detnov's range of Addressable control panels has been approved according to EN54-2, EN54-4 and EN54-13 regulations to cover all the requirements of small and medium installations.

This range of fire control panels is made up 2 models and it offers 4 and 8 loop models. Each loop may control up to 250 elements and a limitless number of detectors, manual call points, sounders and modules can be installed in the loop (1).

The loop devices and control panel communicate and are powered via 2 wires, with the wire connection in the loop supporting non-polarity when using the devices without a built-in isolator (2).

There is a relay output for the alarm status and another for the fault status, 2 monitored sounder outputs and a 24V auxiliary power output.

An information display with menus and sub-menus that can be easily browsed using the keyboard.

The control panel features self-search and self-diagnosis functions for commissioning of the installation, reducing the works execution costs, as well as software that can be used to identify the loop devices with names, assign them to their corresponding zones and create operations between the detection system's input and output devices.

The CAD-150-4 and CAD-150-8 fire control panels can be connected to Detnov network using TRED-150 and TMB-151 (for F-Networks) or TMB-251 (for S-Networks) communication cards. The network can have up to 32 nodes (control panels or repeaters). Fibre optic connection is optional. Optional integration with other systems via the Modbus protocol.

Compatible with Detnov Cloud for remote control and monitoring via smart phones or a computer; cloudbased platform.

Compatible with SGD-151 graphical software for control and monitoring from a computer.

If the main microprocessor in the motherboard gets damaged ("System Failure" led is then on), each redundant microprocessor placed every two loops takes the control of their associated two loops, sending, in case of fire alarm, a message to the control panel of 1) fire alarm, 2) buzzer activation, 3) activation of the sounders in the control panel.

## Features

- Self-search, self-diagnosis and auto-addressing functions
- Double address detection
- Log up to 6.000 events
- Up to 250 detection zones
- 40 zones indications
- 250 polarity-free devices per loop (2)
- Up to 50 sounders per loop (1)
- Alarm and fault relays
- Two supervised sounder outputs
- 24V auxiliary output
- Day and night configuration
- Detector sensitivity configuration
- Compatible with Detnov Cloud
- Compatible with SGD-151 graphics software
- Free configuration and monitoring software
- Configuration USB plug
- Up to 32 control panels in a network (F-Network and S-Network)

## Applications

DETNOV's range of Addressable fire control panels, CAD-150-4 and CAD-150-8, are ideal products to cover all the requirements of medium and big installations. Thanks to their features, these fire control panels are simple to install and have an excellent quality-price relationship, making them ideal products for protected areas in which up to 2.000 detection points are required for each fire control panel, with up to 64.000 detection points in networked systems. Their typical applications are: shopping malls, campus university, industries, hospitals, etc.

## Technical features

Panel		
Power supply:		90-264VAC 50/60 Hz
Quiescent current:		310 mA
CAD-150-4:		310 mA to 500 mA, according to loop qty
CAD-150-8 / CAD-150-8-PLUS:		
Battery capacity:		2 x 7.5Ah, 2 x 12Ah
CAD-150-4:		2 x 7.5Ah, 2 x 12Ah, 2 x 18Ah
CAD-150-8:		2 x 7.5Ah, 2 x 12Ah, 2 x 18Ah, 2 x 24Ah
CAD-150-8-PLUS:		
Loop:	Maximum quantity of devices:	250
	Maximum load:	400 mA
	Maximum loop length:	2 km
	Maximum cable resistance:	44 Ω
	Maximum cable capacity:	500 nF/km
Soounder output:		500 mA per output
	Delay configuration:	By software
Free contact relay output:		10A a 30VCC
24V auxiliary output:		500 mA
Environment		
Operating temperature:		From -5°C a 40°C
Relative humidity:		95% without condensation
IP Index:		IP30
Physical features:		
Size CAD-150-4:		460 mm x 360 mm x 120 mm
Size CAD-150-8:		525 mm x 450 mm x 120 mm
Size CAD-150-8-PLUS:		525 mm x 450 mm x 200 mm
Weight (without batteries) CAD-150-4:		7,65 kg
Weight (without batteries) CAD-150-8:		9,65 kg
Weight (without batteries) CAD-150-8-PLUS:		11,10 kg
Customizable type:		Latin by default
Display size:		240x128 dots
Approvals:		
EN 54-2, EN 54-4 and EN 54-13		
Certificate number:		0370-CPR-1416

- (1) Use the "System Calculation" tool to check the maximum number of devices and loop length, in accordance with the cross-section of the cable used.
- (2) Correct polarity is required when using devices with a built-in isolator.

## Dimensions

