

ANALOGUE FIRE CONTROL PANEL



FireClass 200

FireClass 100



USER GUIDE



FC200 - FC200/S - FC200/SL - FC100:

Hereby, Bentel Security,
declares the above mentioned Control Panels to be in compliance with the essential
requirements and other relevant provisions of Directive 1999/5/EC.

**The complete R&TTE Declaration of Conformity for each Panel can be found
at www.bentelsecurity.com/dc.html.**

These Control Panels comply with **EN54-2; EN54-4 1999**.

Installation of these systems must be carried out strictly in accordance with the instructions
described in this manual, and in compliance with the local laws and bylaws in force.

The above mentioned Control panels have been designed and made to the highest
standards of quality and performance.

The manufacturer recommends that the installed system should be completely tested
at least once a month.

*BENTEL SECURITY Srl shall not assume the responsibility for damage arising from
improper application or use. The above mentioned Control panels have no user-friendly
components, therefore, should be serviced by authorized personnel only.*

The following versions of the Fireclass200 series are available:

FC200 - Master panel with 4 A Linear power supply;

FC200/S - Master panel with 2.5 A Switching power supply;

FC200/SL - Slave panel without power supply unit;

Fc100 - Master panel with 2.5 A Switching power supply;

If a technical feature is common to all versions, the name Fireclass200 is used in the description.

If a technical feature applies to a specific version, the name of the version concerned is specified.

*Proper functioning of the FireClass200 components can be guaranteed ONLY when ambient
conditions, external to the cabinet, comply with the 3k5 category of IEC 721-3-3:1978.*

The Loops of the FireClass200 control panel support 396 Analogue Devices.

The Conventional Zone of the FireClass200 control panel supports 30 Conventional Devices.

The Fireclass200 supports a maximum of 512 devices in all.

In order to meet standards and qualify for IMQ Certification, the FC200/SL Slave panel must

be equipped with a BENTEL BA424 (27.6 V - 4 A) Linear power supply or

BENTEL BAQ60/24 (27.6 V - 2.5 A) Switching power supply.

*Only the Manufacturer (Access Level no. 4 — refer to "Access Levels" section) can install the
FC200/SL Slave panel power supply.*

The FC200/SL Slave panel can operate ONLY when connected to a FireClass200 Master panel.

*BENTEL SECURITY srl reserves the right to change the technical features of this product
without prior notice.*

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FC200 and FC100 Features	
FC200	FC100
EN54 Approved	EN54 Approved
2 analogue loop: supports 99 sensors and 99 modules	1 analogue loop: supports 99 sensors and 99 modules
Automatic device-drift compensation	Automatic device-drift compensation
Modular loop management	
1 conventional input line: supports 30 fire detectors and an unlimited number of Callpoints	1 conventional input line: supports 30 fire detectors and an unlimited number of Callpoints
16 programmable software zones	16 programmable software zones
16 alarm repeat outputs (open-collectors): 1 per zone	16 alarm repeat outputs (open-collectors): 1 per zone
1 "C" alarm output	1 "C" alarm output
4 programmable, supervised, silenceable alarm output (relays) — expandable to 16 using FC-200/6OUT expander modules	1 programmable, supervised, silenceable alarm output (relay)
1 NON-supervised, NON-silenceable ancillary alarm output (relay)	
1 NON-supervised, NON-silenceable Fault output (relay)	
RS485 Interface — supports 8 repeaters	RS485 Interface — supports 8 repeaters
RS232 Interface for serial printer — linked to the Control panel or a PC for upload/download operations	RS232 Interface for serial printer — linked to the Control panel or a PC for upload/download operations
200 event log	200 event log
Supports 2 FC200/6OUT output expanders to provide 16 outputs	Supports 2 FC200/6OUT output expanders to provide 13 outputs
Local/Remote Upload/Down load from PC	Local/Remote Upload/Down load from PC
TELECOM Module (Accessory item)	TELECOM Module (Accessory item)
Power supply: 230 Vca +/- 10%	Power supply: 230 Vca +/- 10%
Available with 2.5 A power supply/battery charger and with 27.6V-4A linear power supply	Available with 2.5 A power supply/battery charger
Housing for 2 x 17 Ah batteries	Housing for 2 x 17 Ah batteries
Dimensions (w x h x d): 432 x 577 x 131 mm	Dimensions (w x h x d): 432 x 577 x 131 mm
Weight (without batteries): max. 9.0 Kg	Weight (without batteries): max. 9.0 Kg

■ **FC200 and FC100**

The Installer and Operator manuals can be used with FC200 and FC100 Fire Control panels, however, where features and capacity differ, refer to the above table.



Please read this manual carefully to get an overall view of how to use your FireClass200 system. The configuration of the FireClass200 system depends on the size and requirements of the application, therefore, some of the devices and functions described may not be present on your system.

The FireClass200 Master control panel supports:

- 8 FC200/REP Repeaters
- 7 FC200/SL Slave control panels

FireClass200 FireClass200 allows users to control all the functions of the fire control system.

Repeaters Repeaters are peripherals that provide all the system status information (Standard Template — refer to page 10), emit audible signals and allow users to control the main functions of the FireClass200 system (SILENCE, RESET and ACKnowledge).

FC200/SL panels The FC200/SL panels are secondary panels which can be used to expand the FireClass200 system.

- 🔊 FireClass control panels 4.0 firmware version and Repeaters 1.2 firmware version cannot operate on applications using Fire-Class control panels and Repeaters with lower firmware versions.

Signalling

The system status is indicated by the:

- control panel LEDs;
- back-lighted display (20 characters on 4 lines);
- buzzer.

■ **LEDs (Visual Signals)**

ALARM **ON:** - ALARM status. In the event of false alarm - press the SILENCE button to stop the SILENCEABLE Outputs temporarily or the RESET button to stop all the outputs permanently.

MORE ALARMS **ON:** - ALARM status on more than one of the input points (detectors/callpoints). It is possible to view all the input points in ALARM status.

PREALARM **Blinking:** - PREALARM status. The control panel will generate an alarm when the pre-alarm delay ends. In the event of false alarm — press the RESET key to stop the procedure.



TELECOM **ON:** - the telephone line is connected to the control panel.

MAIN POWER (green) **OFF:** - Mains power failure (230 V). Check for blackout in the local area. If the local area power supply is functioning normally, immediate maintenance is required! The batteries will provide the power supply until Mains power is restored.

WALK TEST **Blinking:** - at least one software zone is in Test status. The outputs of the zone concerned will be activated for approximately one second when the zone triggers alarm status. If the zone in Test status triggers an alarm, the extinction outputs of the will not be activated.

DISABLED **ON:** - at least one device has been disabled. Use the **Disable** option from the **MODIFYING** menu to view/change the status of disabled devices.

NIGHT **ON:** - NIGHT Mode ACTIVE. The system will adhere to the programmed Alarm Threshold values of the input points (detectors/callpoints). If the SILENCE button is pressed during NIGHT mode — SILENCE status will be held for the programmed SILENCE time.

DAY **ON:** - DAY Mode ACTIVE. The system will increase the programmed Alarm Threshold values of the input points (detectors) by a pre-set value, in this way the input points (detectors) will be less prone to false alarms caused by persons in the protected ambient. If the SILENCE button is pressed during DAY Mode — SILENCE status will be held until the SILENCE button is pressed again.

FAULT **ON:** - at least one FAULT has been detected. The LEDs and/or the display will indicate the FAULT type.

MAIN (red) As per the green MAIN POWER LED. This LED will go ON during Mains power failure (the MAIN LED has memory function).

LOW BATTERY **ON:** - the control panel batteries are low and will be unable to power the control panel properly in the event of blackout. Wait for several hours for the batteries to recharge. If the LED remains ON, immediate maintenance required!

BATTERY FAULT **ON:** - the batteries are either disconnected or empty or the battery protection fuse has burnt out (refer to FUSES LED). If this status is not cleared, the control panel will be unable to operate in the event of blackout.

GROUND **ON:** - the control panel is leaking to Ground. Maintenance required!

FUSES **ON:** - either the polarity fuse or the 24 V output fuse has burnt out, in the latter case, the devices connected to the 24 V output will be unable to operate (the display will indicate the fuse concerned). Immediate maintenance required!

LOGIC UNIT **ON:** - the control panel has blocked. Immediate maintenance required!

ADDRESS **ON:** - a Loop device (detector/callpoint) is missing. Maintenance required!

SAME ADDRESS **ON:** - Configuration error. Maintenance required!



SILENCE **ON**: - the Silenceable Output Points have been forced into standby status. Press the SILENCE button to restore the previous status. Silenced Output Points will be released automatically if another alarm condition occurs or after the programmed NIGHT Mode SILENCE Time.

Z01... Z16 **ON**: - the respective zone is in ALARM status.
In the event of false alarm — press **SILENCE** to force the SILENCEABLE Outputs into standby or press **RESET** to deactivate all the outputs completely.
Blinking: - (3 sec. ON - 1 sec. OFF) the corresponding zone is in PREALARM status. The zone will go into ALARM status after the programmed Prealarm Time or will start the FIXED delay (if programmed).
In the event of false alarm — press **RESET** to stop the automatic procedure.
Blinking: - (1 sec. ON - 0,5 sec. OFF) the FIXED delay is running. The Zone will go into ALARM status when the programmed delay ends.
In the event of false alarm — press **RESET** to stop the automatic procedure, or press **ACK** to add the PAS delay to the FIXED delay.
Blinking: - (1 sec. ON - 2 sec. OFF) the PAS delay has been added to the running FIXED delay. The Zone will go into ALARM status when the total time of both delay ends.
In the event of false alarm — press **RESET** to stop the automatic procedure. Press **TEST** to check the LEDs are operating properly.

Buzzer (Audible Signals)

The control panel buzzer provides audible indication of the panel status.

3 sec. sound PREALARM status
1 sec. pause

1 sec. sound FIXED Delay running
0.5 sec. pause

1 sec. sound PAS delay running
2 sec. pause

0.2 sec. sound Control panel in ALARM status
0.2 sec. pause

05 sec. sound FAULT
0.5 sec. pause

1 sec. sound FAULT in memory
9 sec. pause

1 sec. sound SILENCE active
2 sec. pause

0.3 sec. sound RESET running
0.3 sec. pause

2 sec. sound Zone in TEST status
1 sec. pause



To test the buzzer press TEST.
The buzzer cannot work during the SILENCE phase.

■ **Display Templates**

STANDBY status This status will be indicated by the STANDBY template. The top line will show the control panel label and the bottom line will show the current Time, date and day of the week.

```
FIRE CLASS 200
Scanning Loop
>> >> >>
16:23 02/08/99 Mon
```

WARNING status This status will be signalled by the WARNING template. The panel will generate a warning when an input point (detector) exceeds its warning threshold and there is risk of an alarm.

```
Panel
in
WARNING
state !
```

PREALARM status This status will be signalled by the PRE-ALARM template. The control panel will generate an alarm when the programmed prealarm time ends.

```
PREALARM 001/002
FIRE CLASS 200
Device: Sen1/01
Software Zone 02
```

The system repeaters will provide the relative information, and the ↑ and ↓ keys will allow you to scroll and view the events concerned. In this case, the ESC key will not allow you to access the Events log.

ALARM Status (Standard Template) The first line of the **Standard Template** will show the address of the **First** input point/zone (detector/callpoint) to generate alarm status.
The second line will show the address of the **Last** input point/zone (detector/callpoint) to generate alarm status.
The third line will show the **Total** number of input points/zones (detectors/callpoints) in alarm status.
The fourth line indicates that the ↑ and ↓ keys (**Up/Down**) will allow you to scroll and view the input points/zones (detectors/callpoints) concerned.

```
First Alarm : ####
Last Alarm : ####
Total Alarms : ####
Up/Down move : ####
```



The Standard Template or Extended Template can be set up via PC only

  *The Extended Template is EN54 non-compliant.*

ALARM Status (Extended Template)

The first line of the Extended Template will show the address of the First and Last input point/zone (detector/callpoint) to generate alarm status and the total number of input points/zones concerned.

The second line will show the control panel label.

The third line will show the detector and the module concerned.

The fourth line will show the labels of the zones concerned.

The fourth line indicates that the ↑ and ↓ keys (Up/Down) will allow you to scroll and view the detectors concerned.

ALARM	001/002
FIRE CLASS	
Device:	Sen1/01
Software Zone	01

FAULT Status Template

The first line will show the address of the **First** input point/zone (detector/callpoint) to generate fault status or the Fault code..

The second line will show the device address of the **Last** input point/zone (detector/callpoint) to generate fault status or the Fault code.

The third line will show the **Total** number of faults.

The fourth line indicates that the ↑ and ↓ scroll keys (Up/Down) will allow you to view the addresses and codes concerned.

First Fault	: #####
Last Fault	: #####
Total Faults	: ###
Up/Down move	: #####

The Centralized Master Panel Log

The centralized Fire Class Master retrieves and logs all the network events. Slave panels log only the events which directly concern them. If a Slave panel generates an alarm, the Master panel will retrieve the alarm event details and broadcast them to ALL or PRE-SELECTED Slave panels in the network. The retrieved information (the label of the Slave panel concerned and the alarm event details) will be shown on the displays of the Master panel and ALL or the PRE-SELECTED Slave panels (Software manuals-System page).

Repeater Display Template

The Repeater displays replicate the Master panel display template, therefore, if the Modify/Read menu is accessed from the Master panel, it will appear instantly on the Repeater displays. However, the Modify/Read menu CANNOT be accessed from Repeaters as they accept RESET, SILENCE and ACK commands ONLY (code entry required). If there are no active conditions (Trouble, Pre-Alarm, Alarm, etc.), the Repeater displays will show the Master panel standby template with the current Date and Time.



ALARM Status (Extended Template) FireClass panel firmware versions 4.00 with Repeater firmware versions 1.2 provide an Alarm Template option (refer to Standard Template or Extended Template). The Alarm Template can be set up via PC only.

The example below signals Alarm on Module1 Loop1. The first line shows the ALARM event no. 1 of 2 active events. The third line shows the label (maximum 16 characters) of the detector or Module in alarm status. The fourth line of the zone the detector or module belongs to.

The ↑ and ↓ scroll keys (Up/Down) will allow you to view the templates of the various detectors in alarm status. In the event of two active alarms, the control panel will alternate between the two alarm templates every two seconds.

ALARM	001/002
FIRE	CLASS 200
Device:	Sen1/01
Software Zone	01



STANDBY status

During standby status:

- the MAIN POWER LED will be ON;
- the NIGHT LED will be ON (during NIGHT Mode);
- the DAY LED will be ON (during DAY Mode);
- the display template will be as per figure 1.

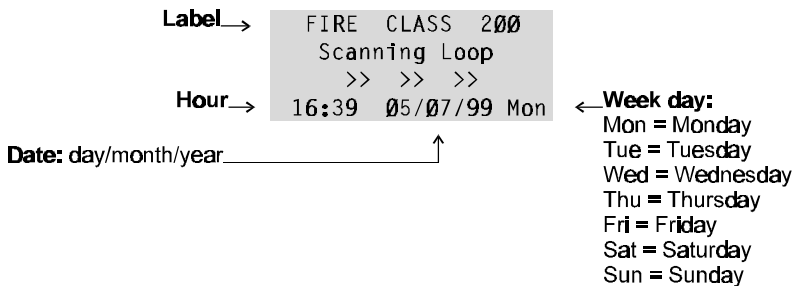


Figure 1



FAULT status

Faults will be signalled by:

- the generic FAULT LED (**ON**);
- the respective FAULT LED (MAIN - LOW BATTERY - BATTERY FAULT - GROUND - FUSES - LOGIC UNIT - ADDRESS - SAME ADDRESS);
- a FAULT Warning template on the control panel and repeater displays (see figure 2);
- an audible signal (0.5 sec. audible signal - 0.5 sec. pause) emitted by the control panel and repeaters;
- the FAULT output points;
- the FC200/COM Telecom Module — if duly set up to call pre-programmed contact numbers.

■ The FAULT Warning Template (see figure 2)

First FAULT The warning template will show the **Identifier** (initials) of the first fault, and for first faults generated by loop devices (detectors/callpoints) will show:

- the loop number (1 or 2);
- the device type (S = Detector or M = Module);
- the device address (01 through 99 or ZC = conventional zone).

If the first fault is not related to a loop-device the template will show:

- **GEN.** - a generic fault (Mains, Low battery, etc.).

Last FAULT As above but for the most recent fault.

Total FAULTS The total number of faults since the last reset operation.

Up/Down move The ↑ and ↓ keys will allow you to scroll the faults logged since the last reset operation.

To access the log and view the most recent fault
— press **ESC**.

Silence The SILENCE key will force silenceable-fault-outputs to standby (the buzz-

First	Fault	:	####
Last	Fault	:	####
Total	Fault	:	###
Up/Down	move	:	####

Figure 2



ers will be unable to function during the SILENCE phase).

Memory Fault memory will be signalled by blinking on the respective LED.

Reset The RESET key can be used to force ALL fault outputs to standby and clear the fault memory.

☞ The fault outputs will restore automatically to standby when faults clear. RESET will be necessary for faults directly related to fault-outputs.

ALARM Operating Mode

The FireClass200 control panel can be programmed to provide WARNINGS and PREALARMS.

WARNING status This status indicates that an input point (detector) has exceeded its warning threshold and, if the condition continues, will trigger an alarm.

The WARNING phase will be signalled by the WARNING template on the control panel and repeater displays:



WARNING status will also be signalled by:

- the WARNING output points;
- the FC200/COM Telecom Module — if duly set up to call pre-programmed contact numbers.

During the WARNING phase you will be able to access the log (refer to "Log" section) and view the most recent event by pressing **ESC**.

PREALARM status This status indicates that an input point (detector) has exceeded its alarm threshold. The control panel will not generate an alarm until the preset pre-alarm-time ends. However, if a second input point (detector) detects alarm conditions during the Prealarm phase, the control panel will generate an instant alarm.

PREALARM status will be signalled by the PREALARM template on the control panel and repeater displays.



PREALARM	001/002
FIRE CLASS	200
Device:	Sen1/01
Software Zone	01

The first line of the PREALARM template will alternate between the first and last event and will indicate the total number of detectors/modules in prealarm status.

The third line will show the label of the first/last detector/module to generate prealarm status.

The fourth line will show the label of the zone concerned.

The ↑ and ↓ keys will allow you to scroll and view the detectors/modules concerned.

The prealarm templates of the first and last events will alternate on the control panel and repeater displays every two seconds.

NOTE: If the control panel is operating in NIGHT mode, it will generate INSTANT ALARMS ONLY (Prealarm status will be bypassed automatically). If an alarm procedure is already running, the control panel will ignore prealarm conditions.

NOTE: Instant alarms (e.g. from callpoints) will override prealarm status.

PREALARM status will also be signalled by:

- blinking on the ALARM and PREALARM LEDs (3 sec. ON - 1 sec. OFF);
- blinking on the LED associated with the software zones of the input point concerned (3 sec. ON - 1 sec. OFF);
- an intermittent audible signal (3 sec. audible signal - 1 sec. pause) on the fire control panel and repeaters;
- the prealarm output points;
- the FC200/COM Telecom Module — if duly set up to call pre-programmed telephone numbers.

During the PREALARM phase you will be able to SILENCE or RESET the system and view the log.

NOTE: In this case, the **ESC** key will not access the events log.

First Alarm	:	####
Last Alarm	:	####
Total Alarms	:	###
Up/Down move	:	####

Figure 3



ALARM status This status activates the output points. It will be generated by ALARM conditions on the system input points (detectors/callpoints).

ALARM status will be signalled by:

- the ALARM LED (ON);
- the LEDs assigned to the software zones of the input points concerned;
- the ALARM template (see figure 3 — Standard Template) on the control panel and repeater displays;
- an intermittent audible signal (0,2 sec. audible signal - 0,2 sec. pause) on the fire control panel and repeaters;
- the ALARM output points;
- the FC200/COM Telecom Module — if duly set up to call pre-programmed telephone numbers.

■ **The ALARM Template (see figure 3 — Standard Template)**

First Alarm This field will show the **Identifier** (initials) of the first ALARM.

First alarms generated by loop devices will show:

- the loop number (1 or 2);
- the device type (S = detector or M = module);
- the device address (01 through 99 or ZC = conventional zone).

First alarms generated by software zones will show:

- the zone address (Z01 through Z16).

Last Alarm As per the first alarm but for the most recent alarm.

Total Alarms The total number of Alarms since the last RESET.

Up/Down move The ↑ and ↓ keys will allow you to scroll the alarms in memory.

During this phase users will be able to access the log (refer to "Log" section) and view the most recent event by pressing **ESC**.

During alarm status users can SILENCE or RESET the system and view the log.

MORE ALARMS This LED will go ON when several input points (detectors/callpoints) detect alarm conditions.

Software Zones

The Fireclass200 control panel manages 16 software zones. Each zone can be associated with input points (detectors/callpoints) and output points



(hornstrobes, etc.). The software zone output points (hornstrobes, etc.) will activate when the zone generates an alarm.

■ Positive Alarm Sequence (PAS)

The software zone (enabled for the **Fixed Delay**) will go into alarm status when the **Fixed Delay** ends.

To extend a running **Fixed Delay** — press **ACK**.
The **PAS Delay** (if enabled) will be added to the **Fixed Delay**.

The software zone will go into alarm status when the delay ends.

- **Fixed Delay** will be signalled by blinking on the respective zone LED (1 sec. ON - 0.5 sec. OFF) and by an intermittent audible signal (1 sec. audible signal - 0.5 sec. pause);
 - **PAS Delay** will be signalled by blinking on the respective zone LED (2 sec. ON - 2 sec. OFF) and by an intermittent audible signal (2 sec. audible signal - 2 sec. pause)
- 🔊 If several input points (detectors/callpoints) are associated with an output point (hornstrobe, etc.) the latter will activate when one or more of its input points detects ALARM conditions.

Silence

The SILENCE button can be used to force Silenceable output points to standby status:

- In NIGHT Mode - Silence status will be held for the preset Silence time;
 - In DAY Mode - Silence status will be held until the SILENCE button is pressed again.
- 🔊 In both operating modes - new alarm conditions will annul Silence status automatically.

Reset

RESET operations can be done from the control panel.

RESET will stop Alarm, Prealarm, Warning and FAULT conditions.
Access to this command is limited to authorized key holders only (access level 2: code or mechanical key).

During RESET the control panel template will be as follows:





The system will reprocess any alarm, prealarm, warning or fault signal which is not cleared by RESET operations.

Command keys (including **ESC**) cannot be used when RESET is running.

The repeaters can be RESET by the installer or user code PINs.

Test

The TEST button will activate all the control panel and repeater LEDs and buzzers.

The FC200/COM Telecom Module (if duly programmed) will call the programmed telephone numbers.

Day/Night Mode

The control panel can operate in DAY or NIGHT Mode.

- If the system is silenced during DAY Mode, SILENCE status will be held until the system is unsilenced (i.e. unless new alarms or faults occur).
- If the system is silenced during NIGHT Mode, SILENCE status will be held for the preset time (refer to "Silence").
- 🔊 On power up (at default) the system will set to DAY Mode. During this operating mode, silenced alarms/faults will not be unsilenced automatically.

This system provides Automatic Alarm Threshold variation.

The alarm threshold of analogue detectors (preset by the installer) will be **increased** during Day Mode, in order to avoid false alarms caused by persons (cigarette smoke, etc.) in the protected ambient.

NIGHT Mode During Night Mode, the preset value will be restored.



Maintenance request

The FireClass200 control panel can manage automatic maintenance requests. Maintenance requests will be signalled by a FAULT warning on the preset date (preset by the installer).

- ☎ The FC200/COM Telecom Module (if duly programmed) will call the programmed telephone numbers.

Disable

The **Disable** option from the **MODIFYING** menu can be used to disable/enable devices, zones and bell outputs (refer to the "MODIFYING" section for further details).

If you disable a device, the DISABLED LED will go ON.
Disabled devices cannot signal ALARMS, FAULTS, etc.

Alarm Verify

This option will allow the FireClass200 to verify ALARM conditions.

If the Alarm Verify option is enabled, the control panel will take into account the length of time alarm conditions last for, and the number of times the device (detector/module) concerned detects the respective conditions.

If the Alarm Verify Counter is set at 99, the control panel WILL NOT take into account the number of times the device (detector/module) detects alarm conditions, but will only consider the length of time the alarm conditions last for. In this way, the control panel will not generate an alarm until the set Alarm Verify Time expires.

If the Alarm Verify option is enabled and the Alarm verify Counter is not set at **0**, the template shown during standby status will be as follows:

```
FIRE CLASS 200
Scanning Loop
Verify Counters >0
16:13 14/01/05 Fri
```

If the **Verify Alarm** is programmed for a device the control panel will generate ALARM in accordance with the **Verify Time** and the **Verify Counter**.

The control panel will hold standby status for the entire time of the **Verify Alarm** operation (Scanning Loops).



The number of Alarm Verify operations performed for an input point can be viewed by means of the **Dev./Zones/Outputs** option from the **READINGS PARAMETER** menu (see "V" field).

Log

The FireClass200 log can record the details of 200 events.

The log is dealt with in detail in the "READING PARAMETERS" paragraph.

Extinction Modes

The FireClass200 "EXTINCTION OUTPUTS" control the fire extinction systems (water, gas, etc.).

The EXTINCTION OUTPUTS can be programmed to respond to an alarm after a preset delay. This operating mode will lower the false alarm rate (unnecessary activation of fire extinction systems). The preset delay will allow users to verify alarms and inhibit or stop fire extinction systems in the event of false alarm.

- ✎ If an alarm is generated by a device which is assigned to an Extinction Output, the Extinction Output concerned will not be activated until the preset delay ends.

Inhibit Extinction To extend a running delay — press any **Inhibit Extinction** button. The effect of an Inhibit Extinction command on a running delay depends on the programmed mode:

- **ADD mode** - the Extinction Inhibition command will add 90 seconds to the preset delay;
- **STOP mode** - the Extinction Inhibition command will stop the delay 10 seconds before it is due to expire. If the Extinction Inhibition command is undone, the delay will restart and run for 10 seconds;
- **FULL mode** - the Extinction Inhibition command will restore the delay to its initial value. If the Extinction Inhibition command is undone, the delay will restart and run for the full preset time.

Silence You can use the **SILENCE** button to:

- **block** a running Extinction Output delay.
- **force** activated Extinction Outputs to **Standby status**.
- **reactivate** Extinction Outputs - forced to Standby status by means of the SILENCE button. These Outputs will be reactivated after the preset delay.

- ✎ In NIGHT Mode - the Silence status (block delay and force to standby) will be held for the programmed Silence Time;



- In DAY Mode - the Silence status (block delay and force standby) will be held until the SILENCE button is pressed again.
- In both modes - Silence status will be overridden automatically if a new ALARM or FAULT condition occurs.

Manual Extinction Press any **Manual Extinction** button to activate **all** Extinction Outputs **without delay**.



MODIFYING

The **Modifying** option from the **MAIN** menu will allow you to disable the control panel devices, clear the Verify counters and delete the log.
To access the Main Menu from standby status — press any key (except RE-SET and TEST).

Select the **Modifying** option from the **MAIN** menu (press 2).

```
FIRE CLASS 200
1- Programming
2- Modifying
3- Reading Parameter
```

Enter the User Code (11111 at default) each digit will be masked by *.

```
Enter
user
code
*****
```

Press ↵ to confirm. If the code is valid the display will show the **MODIFYING** menu.

```
Modifying:
1-Disable
2-De1.Ver.3-De1.Log
4-Telecom Module
```

Select the required option and read the respective paragraph or press ESC to step back to the **MAIN** menu.

Wrong Code If you enter a wrong code, the display will request **Retry**.

```
User code
Wrong !
Retry
XXXXX
```

User default Code The User default code (11111 at default) can be changed by means of the **PassWD** option from the **PROGRAMMING** menu.

Disable

The **Disable** option from the **MODIFYING** menu can **Disable/Enable** the:

- loop devices (monitoring or control devices);
- bell outputs;
- software zones;



- network devices (repeaters or slave panels).

The DISABLE LED will go **ON** when any of the above mentioned is disabled. The disabled/enabled modes are as follows.

Monitoring Devices

The control panel will ignore alarm and/or fault signals from disabled monitoring devices (detectors, monitoring modules, conventional zone modules, addressable call-points), therefore, disabled monitoring devices will be unable to generate alarms or faults.

- To clear FAULTS generated by monitoring devices - **Disable** the monitoring device concerned.
- To clear ALARMS generated by monitoring devices - **RESET** the control panel.

- ☞ If you enable a monitoring device which has detected an ALARM or FAULT condition, it will generate ALARM/FAULT status immediately.

Control Devices

ALARM or FAULT status cannot activate disabled control devices (control modules, addressable sirens, etc.).

- To deactivate control devices activated by faults - **Disable** the Devices concerned
- To deactivate control devices activated by alarms - **RESET** the control panel.

- ☞ If you enable a control device during ALARM or FAULT status, it will activate immediately.

Bell Outputs

The enabled/disabled operating modes of bell outputs are as per control devices.

Software Zones

The disabled/enabled status of software zones will affect their associated devices, as previously described.

Repeaters

The control panel will ignore commands from disabled repeaters, however, their displays will show the control panel template. Loss of a disabled repeater from the network will not generate FAULT status.

- To clear FAULT status - generated by the loss of a repeater - **Disable** the repeater concerned.

- ☞ The control panel will generate FAULT status when the repeater concerned is re-enabled.

Slave panels

Disabled slave panels cannot generate NETWORK ALARM or NETWORK FAULT status. Loss of disabled slave panel from the network will not generate FAULT status.

- To clear FAULT status - generated by loss of an enabled slave panel - **Disable** the panel concerned.



- To clear NETWORK FAULT status - generated by a slave panels - **Disable** the Slave panel concerned.
- To clear NETWORK ALARM status - generated by a slave panel - **RESET** the control panel.
- ☞ FAULT status will be generated when the slave panel concerned is re-enabled.
- ☞ NETWORK FAULT status will be generated when the slave panel concerned is re-enabled.

Procedure To disable the control panel **Items**: loop devices; bell outputs; software zones; network devices.

1. Select the **Disable** option from the **MODIFYING** menu (press 1).

```
Modifying:
1-Disable
2=Del.Ver.3=Del.Log
4=Telecom Module
```

2. Select the **Item**, or press ESC to step back to the **MODIFYING** menu.

```
MOD: Enab./Disabl.
1=LOOP 1 2=LOOP 2
3=Outputs BELL
4=ZONES 5=NET
```

3. Enter the **Item** address then press the ↵ key, or press ESC to step back and select another **Item**.

```
MOD: Devices L1
Enter Address
Sensors L1: 1##
Modules L1: 1/___
```

If a valid address is entered the display will show: — the **Item** label; real-time analogue value; type; address; current status (see figure 4).

4. Press ↑ or ↓ to change the **Item** status then press ↵ to confirm or ESC to quit.

```
MOD: Enab./Disabl.
Device: SENSOR
%## 1/##
STATUS: DISABLED
```

5. Step back to 3.

Conventional line To enable or disable the conventional line (terminal 10[LC+]) position the cursor on the **L1 Detector** space and press the ↑ key.

```
MOD: Devices L1
Enter Address
Sensors L1: 1ZC
Modules L1: 1/___
```



Non-Configured Devices If you enter an invalid address, the display will show an error message. Press ESC to quit and step back to **3**.

DEVICES LOOP1
Device not
configured
on LOOP 1

Delete Verify (Del. Ver.)

To view the values of the Verify-Alarm counters of the system detectors — press **2** (Del.Ver.).

Modifying:
1=Disable
2=Del.Ver.3=Del.Log
4=Telecom Module

The Verify Alarm counters may be:
— ALL at **0** or

All Device with
Alarm Verify 1
Counter= 01
ESC = QUIT

— with augmented values.

Label:
Device: SENSOR
Device: MODULE
BELL output
Software Zone
Slave
Repeater
Analogue Value: 00 + 99
STATUS:
ENABLED
DISABLED

MOD: Enab./Disabl.
Device: SENSOR
%## 1/##
STATUS: ENABLED

← Object/Address:
1 = Loop 1/ZC - 01 + 99
2 = Loop 2/01 + 99
B = BELL output/01 + 16
Z = Software Zone/01 + 16
_ = Repeater/01 + 08
_ = Slave Unit/01 + 07

Figure 4 Enabled/Disabled status of detectors


```
Verify Counter > 0
Detector Label 01
Counter= 01
Enter=Clear Counter
```

The ↓ key will allow you to scroll the Verify-Alarm counters of detectors with augmented values.

To clear the Verify-Alarm counter of the detector on view — press the ↵ key.

NOTE: The counters must be cleared one by one.

Delete Log (Del. Log)

The Delete Log (**Del. Log**) option from the **MODIFYING** menu will allow you to delete the contents of the log.

Select **Del. log** (press 3).

```
Modifying:
1-Disable
2-Del.Ver.3-Del.Log
4-Telecom Module
```

Press ↵ to delete the contents of the log or press ESC to quit and step back.

```
MOD: Clear Logger
Are
you sure ?
Yes=Enter No=Esc
```

Telecom Module

The **Telecom Module** option from the **Modifying menu** (press 4) will allow you to change the telephone numbers, messages and/or enable/disable the **Remote management** option.

```
Modifying:
1-Disable
2-Del.Ver.3-Del.Log
4-Telecom Module
```

Select **Numbers** (press 1) to change the programmed telephone numbers.

```
Mod: Telecom Module
1-Telephone Numbers
2-Messages
3-Remote Management
```



Select the identifier number (1 to 32) of the telephone number to be changed, and change as necessary.

```
Mod: Telecom Module
Telephone Numbers
Number = 01
```

Select **Messages** (press 2) to change, record or listen to the messages.

```
Mod: Telecom Module
Message      -
A = Listen
B = Record
```

Enter the identifier number of the message then press **1** to listen. The display will show ...

```
Mod: Telecom Module
Listen
Message      - 1
>>>>>>    ESC=End
```

Press **ESC** to stop the message and step back. Select **Record** (press 6) to record or change messages.

```
Mod: Telecom Module
Recording
Message      - 1
>>>>>>    ESC=End
```

Select **Remote Management** (press 3) to enable/disable Teleservice (**ON/OFF**).

```
Mod: Telecom Module
Remote Managem. -OFF
```



READING PARAMETER

The **Reading Parameter** option from the **MAIN** menu will allow you to view all the control panel parameters and to print the log.

Select the **Reading Parameter** option from the **MAIN** menu (press 3). No access code is required. Viewing and printout do not affect the parameters and operating modes of the control panel.

```
FIRE CLASS 200
1- Programming
2- Modifying
3- Reading Parameter
```

The display will show the **READING PARAMETER** menu.

```
READINGS:
1-Dev./Zones/Outputs
2-Opt.3-Ver.4-Log.
5-Print 6-M.Telecom
```

Select the required option and read the respective paragraph or press ESC to step back to the **MAIN** menu.

Devices/Zones/Outputs

The **Dev./Zones/Outputs** option from the **READING PARAMETER** menu will allow you to view the parameters of the loop devices, software zones, bell outputs and network devices.

1. Select the **Dev./Zones/Outputs** option from the **READING PARAMETER** menu (press 1) or press ESC to step back to the **MAIN** menu.

```
READINGS:
1-Dev./Zones/Outputs
2-Opt.3-Ver.4-Log.
5-Print 6-M.Telecom
```

2. Select the required option or press ESC to return to the **READING PARAMETER** menu (step 1).

```
RD: Choosing Menu
1-LOOP 1 2-LOOP 2
3-Outputs BELL
4-ZONES 5-NET
```

3. Type in the address of the required **Item**, or press ESC to step back to the **Dev./Zones/Network** (step 2).

```
RD: Devices L1
Enter Address
Sensors L1: 1/##
Modules L1: 1/_
```



- ☞ Position the cursor on Loop 1 then press ↑ to view the parameters of the conventional line.

If a valid address is entered the display will show the respective data as described in the "PROGRAMMING" section.

Press ← or → to view the parameters of the other **Items** of the same type, or press ESC and type in another address (step 3).

If an invalid address is entered at step 3 , the display will show an error message.
Press ESC then enter a valid address.

```
DEVICES LOOP1
Device not
configured
on LOOP 1
```

Options

This option from the **READING PARAMETER** menu will allow you to view the parameters of the **Options**.

Select **Options** from the **READING PARAMETER** menu (press 2), or press ESC to step back to the **MAIN** menu.

```
READINGS:
1-Dev./Zones/Outputs
2-Opt.3-Ver.4-Log.
5-Print 6-M.Telecom
```

The display will show the **OPTIONS** menu (refer to "OPTIONS" section). Press ESC to step back to the **READING PARAMETER** menu.

```
RD: OPTIONS
0-P 1-W 2-V 3-D 4-T
5-S 6-H 7-D 8-Pulse
9-Extinction Mode
```

Version

The **Version** option from the **READING PARAMETER** menu shows the control panel version.

Select the **Version** option from the **VIEW PARAMETERS** menu (press 3), or press ESC to step back to the **MAIN** menu.

```
READINGS:
1-Dev./Zones/Outputs
2-Opt.3-Ver.4-Log.
5-Print 6-M.Telecom
```

The display will show the control panel version. Press ESC to step back to the **READING PARAMETER** menu.

```
Fire Class 200
version
3.0
```



Log

The FireClass200 log stores 200 events. If the log reaches its limit, it will delete old event automatically (starting from the oldest) in order to free locations for new events.

1. Select the **log** option from the **READING PARAMETER** menu (press 4), or press ESC to step back to the **MAIN** menu.

```
READINGS:
1-Dev./Zones/Outputs
2-Opt.3-Ver 4-Log.
5-Print 6-M.Telecom
```

2. The display will show the most recent event.
NOTE:The example shows no.123 as the most recent event.

```
ZONE ALARM      123
FIRE CLASS     200
Software Zone
15:09 13/07/99 01
```

3. Press ← to scroll back.

```
ALARM          122
FIRE CLASS     200
Device: MODULE
15:09 13/07/99 1M13
```

4. Press → to scroll forward.

```
ZONE ALARM      123
FIRE CLASS     200
Software Zone
15:09 13/07/99 01
```

5. Press ESC to quit and step back to **READINGS** menu.

When the ← key is pressed on the oldest event ...

```
FAULT          000
FIRE CLASS     200
Missing MAIN
18:02 05/07/99
```

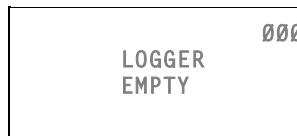
... the most recent event will be shown.

```
ZONE ALARM      123
FIRE CLASS     200
Software Zone
15:09 13/07/99 01
```

When the → key is pressed on the most recent event, the control panel will emit an audible error signal.



No event If, at step 2, the log is empty (no events), the display will show the **LOGGER EMPTY** message.



Delete log The **Delete log** option from the **MODIFYING** menu will allow you to delete the log.

■ Log data

The following data will be saved in the log (see fig. 5).

Event Type This shows the event description.

Event Number This shows the event number (1 through 200).

Panel This shows the control panel label (Master panel, Slave panel or Repeater) assigned during programming.

Origin This shows the label of the **Item** which generated the event.

Hour/Date This shows the time and date of the event.

Address This shows the address of the **Item** which generated the event.

Print

The **Print** option from the **READINGS** menu will allow you to print the log.

1. Select the **Print** option from the **READINGS** menu (press 5) or press ESC to step back to the **MAIN** menu.

READINGS:
1-Dev./Zones/Outputs
2-Opt.3-Ver.4-Log.
5-Print 6-M.Telecom

Event type→	ZONE ALARM	123	←Event number: 000 + 199
Panel→	FIRE CLASS	200	
Origin→	Software Zone		
Time→	15:09	13/07/99	01 ←Address
			↑ Date: day/month/year

Figure 5 Log data



2. Select the **Logger** option (press 1) or press ESC to step back the **READINGS** menu.

```

READINGS
Print:
1- Logger
2- Programming

```

3. Press ↵ to start the log printout or press ESC to quit and step back.

```

Logger Print
Start Print ?
Enter - Yes
Esc   - Exit


```

4. The display will show the template opposite.

```

Logger Print
running
please
wait....

```

 The control panel will continue functioning during the log printout.

Printer not enabled If the printer is not enabled, the display will show the respective template.

```

Printer not
enabled !
Enable in
menu' PRG:SYSTEM

```

Printer not connected The serial printer must be connected to the control panel serial port.

The control panel will ignore the printer status (disconnected, paper out, no ink, blocked, etc.).

Stop Print To stop the **Print** command - proceed as per start **Print**. At step 3 press (after pressing ↵) the display will show the template opposite. At this point, press ↵ to stop the Print or ESC to step back.

```

Logger Print
running
stop ?
Yes - Enter

```

Print Programming The **Programming** option from the **PRINT** menu is reserved for future use.

If the **Programming** option is selected from the **PRINT** menu ...

```

READINGS
Print:
1- Logger
2- Programming

```



... the template will be as opposite.

```
Programming Data
Print
Future Use
Future Use
```

Press ESC to step back to the **PRINT** menu (step 2).

Telecom Module

The **Telecom Module** option from the **PARAMETER READING** menu will allow you to view the Telecom Module settings.

```
READINGS:
1-Dev./Zones/Outputs
2-Opt.3-Ver.4-Log.
5-Print 6-M.Telecom
```

Select **Tel.Mod.** from the **PARAMETER READING** menu (press 6), or press **ESC** to stepback to the **Main** menu.

The display will show ...

```
Rd. :Telecom Module
1-Telephone Numbers
2-Messages
3-Remote Management
```

Select **Telephone numbers** (press 1) to view the programmed Telephone numbers (01 to 32).

The display will show ...

```
Rd. :Telecom Module
Telephone Numbers
Number : 01
```

Select **Messages** (press 2) to listen to the messages recorded during the programming phase of the Telecom Module.

```
Rd. :Telecom Module
Message - 1
A - Listen
```

Select **Remote Management** (press 3) to enable/disable (**ON / OFF**) Tele-service.

The display will show ...

```
Rd. :Telecom Module
Remote Managem.- OFF
```