

SmartLine

Conventional control panels with 2 zones, 4 zones expandable to 20, 4 zones expandable to 36



The SmartLine conventional fire-detection control panel series offers a 2 zone non-expandable model (SmartLine020-2), a 4 zone model expandable to 20 zones (SmartLine020-4) and a 4 zone model expandable to 36 zones (SmartLine036). The extreme compactness, trouble-free installation, uncomplicated programming procedures and simple end-user operation make this highly competitive control panel ideal for all small and medium applications. The numerous functions (timers, equational logic, etc.), extensive flexibility (automatic output balancing, multifunction inputs, customizable outputs, gas function integration, etc.) and innovative connectivity capabilities (RS485 BUS for power supply stations, Internet connection, etc.), provide the tranquility of knowing for sure that this powerful tool is capable of satisfying every need of every type of installation. SmartLine control panels have supervised outputs (one on the motherboard and one on each added expansion) for the activation of audio-visual signalling devices, a customizable relay output, fault signaling outputs and two 24V outputs (one constant and one interruptible by installer-defined conditions). Additionally, each detection zone provides a terminal which can be configured as: open-collector output (activated by programmable conditions),

supervised input, or Gas 4-20mA detector interface. System information is provided through the graphic display and LEDs on the control panel frontplate. The RS485 BUS supports 4 remote repeater panels (SmartLetUSee/LCD-Lite). These repeater panels replicate all the fire alarm system data and allow users to access and control the system in accordance with their authorized access level. The BUS also supports two power-supply stations which can be connected in such a way as to allow supervision of their functionality and activation/deactivation of their output power during predefined conditions. Programming the system from the front plate is simple and intuitive thanks to the graphic display. However, it is possible to configure the control panel from a PC via an RS232 serial connection, the simple and intuitive SmartLeague configuration software greatly speeds up the commissioning of the system. The SmartLAN/485 board allows the control panel to connect to an Ethernet network for remote access via the Internet. Once the remote connection has been established, it is possible to modify the configuration parameters, upload/download programming data and/or manage the system by means of the supervisory software based on SmartLook graphic maps.

Accessories

SmartLine/8Z

8 zone expansion board equipped with an additional supervised output.



SmartLetUSee/LCD-Lite

Remote repeater panel equipped with display and user-interface keypad (up to 4 for each control panel).



SmartLAN/485

Ethernet connection board. Allows the control panel to connect to an Ethernet network for remote for programming and monitoring via the Internet using SmartLook graphic maps. The board implements the SIA-IP communication protocol.



SmartLetLoose/ONE

Fire extinction board for the management of a gas extinguishing channel. Approved CPD – EN12094-1.



SmartLine/LOGEXP

Log event capacity expansion board for the storage of the last 2,000 events that occurred in the system. SmartLine/LOGEXP provides a non-volatile memory of the events log that retains stored data even when the control panel is turned off.



SmartLevel

Power-supply station connectable to the RS485 BUS (for supervision and management of the control panel power-supply-station outputs) – Refer to 'Power-supply stations' section.



Main features

- Conventional fire-detection control panel
- Available with 2 zones, 4 zones expandable to 20, 4 zones expandable to 36
- Certified EN54-2 / EN54-4
- Certified EN12094-1 (Fire extinction)
- Supports up to 32 devices per zone
- Manages SmartLetLoose/One Fire Extinction board (Function EN12094-1 Approved)
- 1 supervised alarm output (NAC)
- 1 output for communicator/dialler activation
- 1 dry-contact alarm output
- 1 dry-contact fault signalling output
- 1 power supply output for ancillary devices
- 1 interruptible power supply output for ancillary devices
- 1 additional terminal per zone configurable as: open-collector output, supervised input, Gas detector input with 4-20mA interface
- Battery shutdown relay for deep discharge conditions
- Backlit graphic display for easy management of Installer/User interface
- Navigation keys for easy access to graphic display functions
- Fast keys (Silence, Reset, Evacuate, Investigate)
- RS485 BUS for the connection of Repeater panels and Power supply stations (SmartLevel)
- Signalling buzzer
- 8 Timers
- 8 logical equations
- Automatic balancing of individual detector lines
- RS232 connector for programming via PC
- Programming software
- Easy system programming from the control panel
- Access key for level 2 functions (EN54 compliant)
- Battery charge optimization (via thermal probe)
- Battery efficiency test
- Extensive application of SMD reflux technology for higher reliability
- Metal enclosure
- Mains power supply 230Vac
- Switching power supply/battery charger 1.4A @ 27.6Vdc (for SmartLine020) or 4A @ 27.6Vdc (for SmartLine036-4)
- Battery housing for two 7Ah – 12V batteries (for SmartLine020) or two 17Ah – 12V batteries (for SmartLine036-4)
- Dimensions: (HxWxD for SmartLine020): 325x325x80mm – (HxWxD for SmartLine036-4): 497x380x87 mm.
- Weight (without batteries) – SmartLine020: 3 Kg – SmartLine036-4: 6 Kg

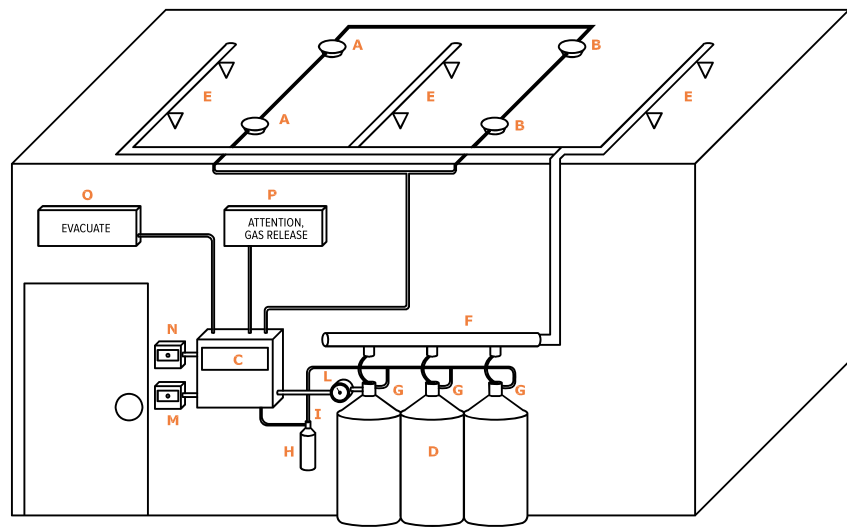
Extinguishment

Addition of a SmartLetLoose/ONE fire extinction board to any SmartLine series fire control panel provides the system with GAS extinction control capabilities in compliance with EN12094-1. The control panel provides all the functions required by law and allows the connection of the various accessories necessary for the management of a fire extinction system (refer to

'Accessories for fire extinction systems'). SmartLine fire extinction control panels can operate autonomously or can interface with addressable analogue control panels from the SmartLoop series by simply connecting them to the RS485 BUS of the latter (extinction stations for addressable systems).

DIAGRAM KEY

- A Line 1 detectors
- B Line 2 detectors
- C SmartLine fire extinction control panel
- D Extinguishing gas cylinders.
- E Gas release nozzles
- F Gas collectors
- G Pneumatic release valve
- H Pilot cylinder for gas release
- I Pilot cylinder electrovalve
- L Pressure switch
- M Manual activation button
- N Stop extinction button
- O Audio/Visual signaller of imminent gas release
- P Audio/Visual signaller of gas present



Application diagram

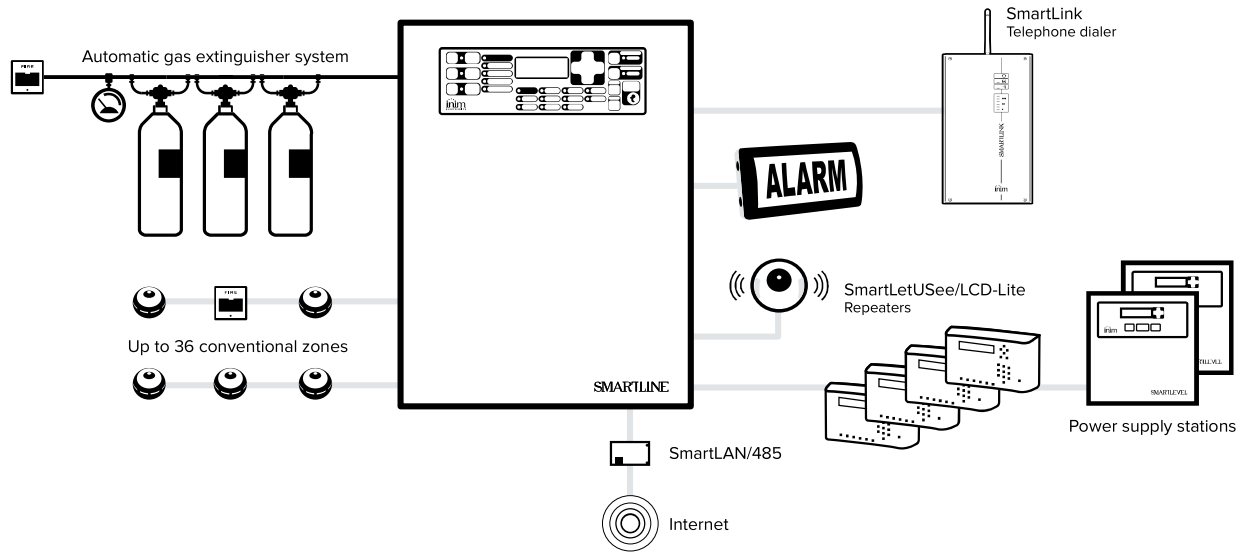
Main features

- Certified EN12094-1
- Microcontroller board supervised by the CPU
- Indicator LEDs (status, disabled, faults)
- Supervised terminals for manual fire extinction commands
- Supervised terminals for STOP fire extinction commands
- Supervised terminals for pressure switch control
- Supervised output for activation of fire suppression devices
- Supervised output for activation of pre-extinction signallers
- Supervised output for activation of extinction-in-progress signallers

ORDER CODES

SmartLine020-2	Non-expandable 2 zone conventional control panel.
SmartLine020-4	Conventional control panel with 4 zones expandable to 20.
SmartLine036-4	Conventional control panel with 4 zones expandable to 36.
SmartLine/8Z	8 zone expansion board
SmartLAN/485	Ethernet connection board
SmartLetLoose/ONE	Extinction board
SmartLetUSee/LCD-Lite	Remote-control repeater panel for SmartLine and SmartLight control panels.
SmartLeague	Programming and management software.
Link232F9F9	RS232 connection cable between PC and Inim devices.
IPS24060G	Power supply module 1.5A @ 27.6Vdc.
IPS24160G	Power supply module 4A @ 27.6Vdc.
ProbeTH	Thermal probe - protects the battery against overheating and consequent permanent damage.

Application diagram



SmartLeague programming software



The completely-overhauled SmartLeague management and programming software is an indispensable tool for all those professionals who require full control of fire detection systems. In addition to allowing fast configuration of the control panel

parameters, it offers an overview of the system and provides wiring diagrams of the various terminals in function of the set options.