SMARTLOOP

EN 54-2
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ANALOGUE ADDRESSABLE FIRE DETECTION PANEL

SmartLoop analog addressable control panel series offers models that provide from 1 to 8 loops which can be connected in a network of up to 30 control panels.

The SmartLoop series has been specially designed to provide enhanced features, best-in-class performance, simple end-user operation and trouble-free installation, all with the aim of helping the installer company to improve efficiency. These first-rate features have been made possible by the appliance of multiprocessor architecture with self-diagnosis features coordinated by a 32 bit processor. This impressive hardware podium provides the processing resources necessary to ensure the highest levels of reliability, response speed, ease-of-use, connection simplicity, enhancement opportunities and flexibility. The SmartLoop system uses a synergy of advanced technologies: OpenLoop technology, HorNet network technology, Emergency54 technology; Janus connectivity technology, VERSA++ technology and LoopMap technology.

Emercency54®

Emergency54 technology operates at panel level – to ensure signalling during control panel CPU fault; and at network level – to ensure signaling during main unit CPU fault. Emergency54 also extends its functions to telephone communications.

HorNet®

The highly fault-tolerant HorNet® architecture is able to reconfigure itself in such a way as to protect the ring connectivity in the event of a network fault. HorNet® architecture permits the exchange of information between control panels in real-time and allows the creation of cause-effect matrices.

Janus®

Janus® technology allows you to interface the world of INIM products with the outside world through a TCP/IP Ethernet connection. Janus® technology is embedded in SmartLAN boards. Addition of a SmartLAN board to the system allows safe worldwide access to the system from any computer via the Internet. Janus® offers the opportunity to send e-mails with attachments, send UDP and TCP/IP data packets and programme the control panels in the network from any remote location over the Internet.

OpenLoop®

OpenLoop® technology permits control panels to accommodate different brands of peripheral devices by design. OpenLoop® technology also allows control panels to manage different brands of peripheral devices on different loops.

Versa++

As a result of the revolutionary Versa++ technology incorporated in the ENEA detector ranges, you can now configure individual detectors to suit their specific environments.

LoopMap

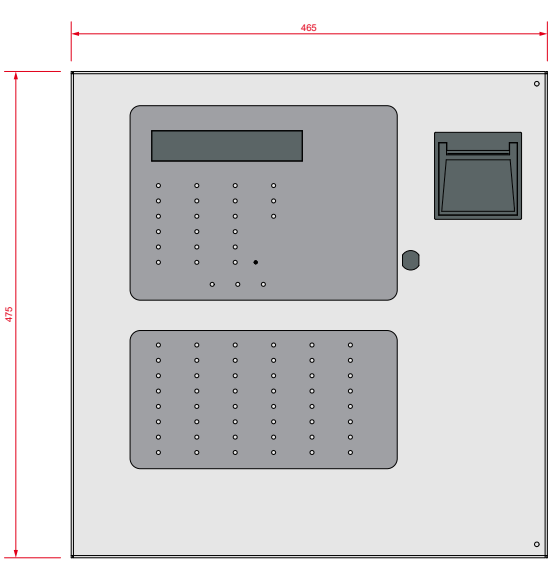
LoopMap technology allows you to reconstruct the exact installation topology and obtain an easy-to-use, interactive loop-layout map which greatly simplifies and speeds up searches relating to faults and maintenance work.

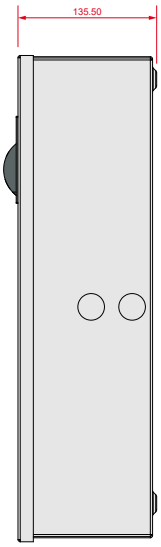
SMARTLOOP

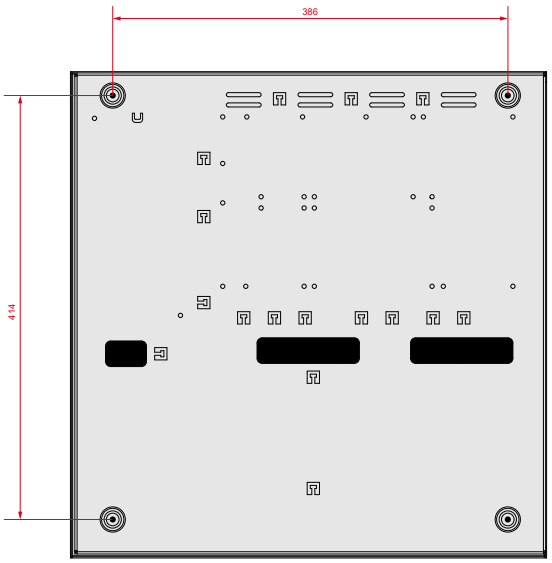
MAIN FEATURES

- Analogue-addressable fire control panel
- 2 loops expandable to 8
- Certification IMQ CPR EN54/pt2 – pt4 - pt21
- Multi-processor hardware architecture
- 32 bit main CPU
- Dedicated microprocessor for each loop
- OpenLoop Technology
- LoopMap Technology
- Versa++ Technology
- HorNet token-ring architecture
- Supports Emergency54 emergency configuration (CPU redundancy)
- Manages up to 30 panels in a token-ring network via the SmartLoop/NET board
- Accessible over the Internet via a SmartLAN board (accessory item)
- 2 or 4 wire loop connection
- Supports 240 devices per loop
- 240 software zones
- Zone Walk Test function
- Control equations for activations with logical operators (And, Or, Not, Xor, etc.).
- Trigger activations
- 1 NAC Alarm output Protected by 1.3 A self-resettable fuse
- 1 Supervised NAC trouble output Protected by 1.3 A self-resettable fuse
- 3 programmable supervised NAC outputs Protected by 1.3 A self-resettable fuse
- 1 alarm relay
- 1 fault relays
- Management over RS485 BUS of SmartLetUSee/LCD remote repeater panels (max. 14)
- Management over RS485 BUS of SmartLine0XX-4EXT extinguishing system control panels (max. 4)
- Management over RS485 BUS of SPS24x60x power stations (max. 4)
- 1 24V power supply output for external devices
- 1 24V resettable ancillary power output
- Battery shutdown relay for deep discharge conditions
- RS232 and USB connectors for computer link
- RS232 connector for serial printer
- 2000 event buffer
- Self-enrolling (for loop devices)
- Self-addressing function for loop devices
- Manages conventional detectors (through SmartLoop/INOUT board)
- Emergency phone call (through SmartLoop/PSTN board)
- Backlit alphanumeric display (40 characters x 4 lines) for easy management of the installer/user interface
- Navigation keys for easy access to menu options
- Fast keys (Test, Beeper, Silence, Reset, Evacuate, Investigate)
- Signal buzzer
- User-friendly programming software (runs under Windows)
- Programming from panel or via software programme
- Code or key access to Level 2 functions (EN54 compliant)
- 3 password levels
- Power-section output current controlled by a thermal probe (ProbeTH) located on the battery
- Battery efficiency test
- Extensive application of SMD reflux technology for higher reliability
- Metal enclosure
- Battery housing for two 17Ah, 12V batteries
- Switching power supply/battery charger 4A @ 27.6Vdc

DIMENSIONS







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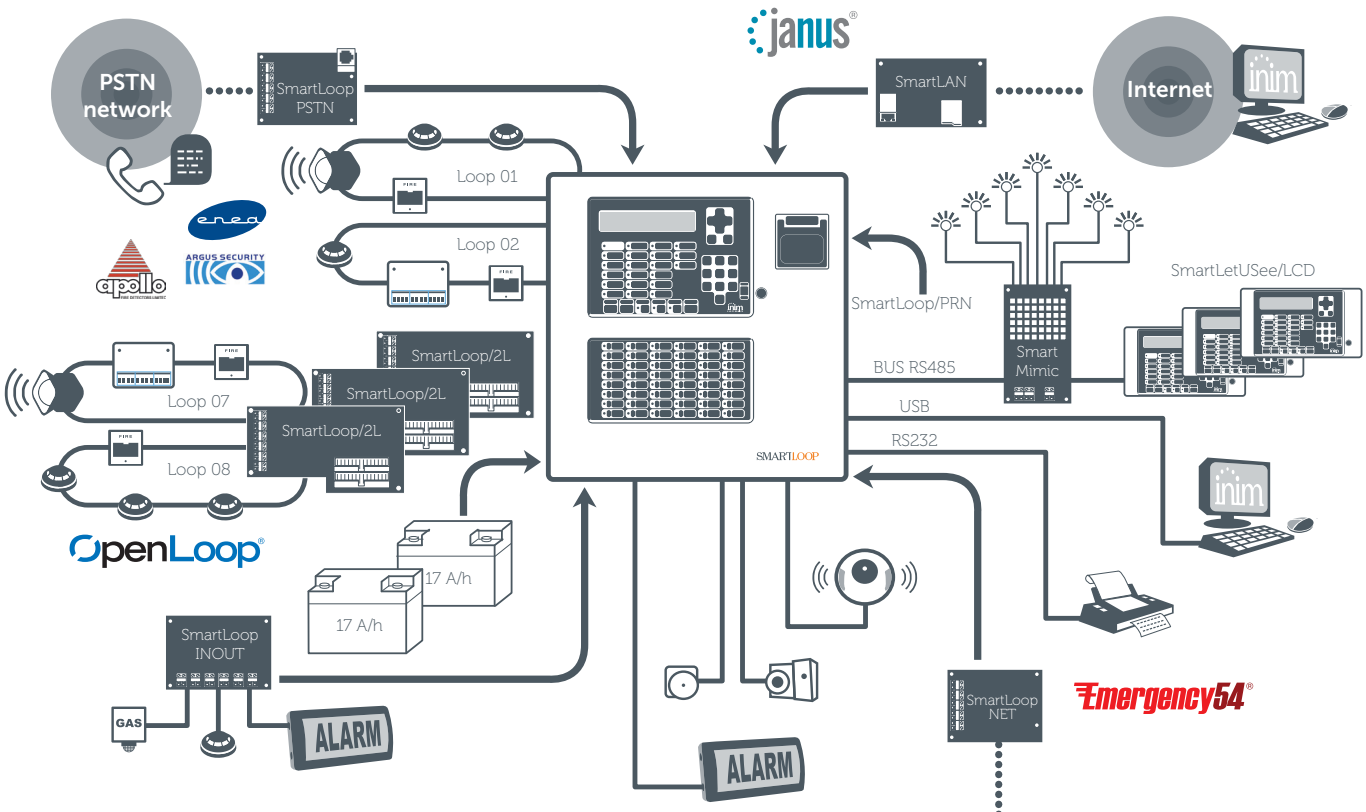
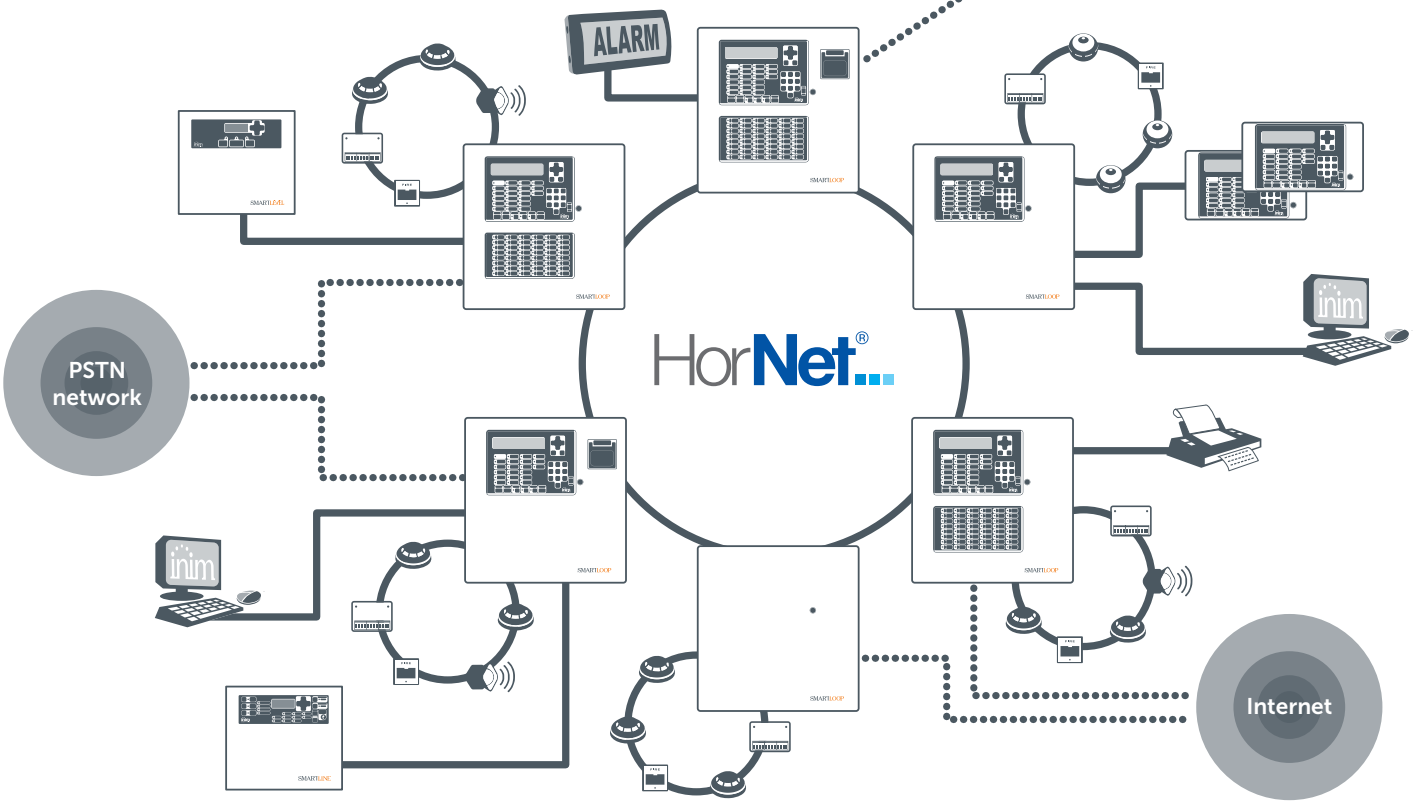
OVERVIEW



CONTROL PANEL NETWORK



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TECHNICAL SPECIFICATIONS

- Power supply voltage: 230 Vac 50/60 Hz
- Absorption from mains: 0.9 A
- MAX current for external loads: 2.8 A
- Supported battery: 2 x 17Ah 12V
- Operating temperature: -5° .. +40°
- Dimensions: 475x465x135 mm
- Weight (without batteries): 8Kg
- Loop Output Terminals: 0.5A each loop MAX
- NAC1, NAC2, NAC3, Alarm NAC Output, Fault Output: 1.3A MAX
- Fault Relay, Alarm Relay dry contact: Max 5 A @ 30V MAX
- RS485 BUS: 1.8A MAX
- AUX, AUX-R: 1.8A MAX

WIRING DIAGRAMS TABLES

ITD001 Enea Detectors Wiring Diagram
ITD003 Enea Detectors Wiring Diagram
ITI004 Enea and Iris Detectors Installation
ITD005 EC0010 Call Point Wiring diagram
ITI006 EC0010_IC0010 Installation
ITD007 ESB010 Sounder Base Wiring diagram
ITD008 ESB020 Sounder Beacon Base Wiring diagram
ITD009 EB020 Relay Base Wiring diagram
ITD010 EM312SR Wiring Diagram Input Generic
ITD011 EM312SR Wiring Diagram Output
ITI012 EM312SR Installation
ITD017 EU311 Wiring diagram Input
ITD018 U311 Wiring diagram Input
ITI023 EC0010E Installation
ITD024 EC0010E Wiring Diagram

ORDER CODES

SmartLoop/2080-P: control panel with 2 loops expandable to 8, equipped with command keypad, display, status LEDs and housing for SmartLoop/PRN printer (accessory item)
SmartLoop/2080-G: control panel with 2 loops expandable to 8, equipped with command keypad and display
SmartLoop/2080-S: control panel with 2 loops expandable to 8, with unequipped flush front
SmartLoop/1010-P: control panel with 1 loop, non-expandable, equipped with command keypad, display, status LEDs and housing for SmartLoop/PRN printer (accessory item)
SmartLoop/1010-G: control panel with 1 loop, non-expandable, equipped with command keypad and display
SmartLoop/1010-S: control panel with 1 loop, non-expandable, with unequipped flush front
SmartLetUSee/LCD: remote LCD repeater panel
SmartLetUSee/LCD-RK: remote LCD repeater panel, 19" rack mount
SmartLetUSee/LED: remote LED repeater panel
SmartLoop/2L: 2 loops expansion board
SmartLoop/INOUT: input and output expansion board
SmartLoop/NET: board for the connection of SmartLoop control panels in a HorNet network
SmartLoop/PSTN: landline digital and voice dialler board
SmartLoop/PRN: printer module for SmartLoop/X0X0-P only
SmartLAN: ethernet interface for Internet connections over TCP-IP and remote programming and supervision
SmartLAN/SF: ethernet interface for Internet connections over TCP-IP
SmartMimic: synoptic board
SmartLine020-4EXT: single-channel fire suppression control panel with 4 conventional zones expandable to 20
SmartLine036-4EXT: single-channel fire suppression control panel with 4 conventional zones expandable to 36
SmartLeague: programming and management software for INIM products runs under Windows
SmartLook/FXXX: supervisory software application for fire control panels
Link232F9F9: RS232 cable link between PC and INIM devices
ProbeTH: thermal probe for optimization of the battery charging process
SPS24x60x: 24V power stations

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