Ampac

Fire detection and evacuation solutions that save lives.

LoopSense CP10 – Intelligent Analogue Addressable Fire Control Panel

Features

- 1 or 2 Loop Fire Alarm Control Panel
- 500mA Loop Current
- 4 Programmable Inputs
- 4 Programmable Sounder Circuits
- 3 Programmable Relays
- 2 Programmable Open Collector Outputs
- Clear back-lit 40 x 4 line LCD
- Supports a range of Panel Add-ons
- Integrated 32-Zone Indication LED's
- Programmable via front panel
- Removable front door
- Comprehensive loop monitoring and diagnostics support
- CP10:2005, EN54-2 and EN54-4 compliant

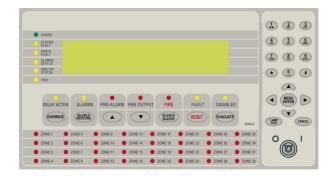
Description

LoopSense is an Intelligent Analogue Addressable Fire Alarm Control Panel that is available in 1 or 2 loop options. The LoopSense comes packed with features designed to make it versatile, easy to install, easy to operate and easy to commission.

The LoopSense is suitable for small to medium sized fire detection systems and is compatible with the Ampac range of XP95, Discovery, and DS Series addressable detector.

Programming the LoopSense is easily achieved via the front control panel or by using AMPAC's LoopSense configuration software LoopMaster.

LoopMaster is an intuitive Windows[™] based software that can be installed on laptops. The laptop is easily connected to the FACP via the USB or RS232 communication ports located on the panel's main termination board.



LoopSense Controls and Indicators



LoopSense supports a large range of internal and external optional Panel Add-ons.

Internal Panel Add-ons include:

- 8-Way Relay Board
- 8-Way Sounder Board
- 8 Zone Conventional Board
- Conventional Network Board
- Switch and Indicator Board
- 32 Zone Alarm Indicator Board
- Zone Disable and Indicator Board
- Front panel mounted printer

External Panel Add-ons:

- SmartTerminal (LCD Annunciator)
- 8-Way Relay Board

A number of communication ports are also available including:

- Parallel printer port
- Serial printer port
- PC interface port RS232 and USB
- RS485 serial port

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Additional Features

- Comprehensive Auto learn function
- Plug in key for 2nd loop enabling
- Supports up to thirty SmartTerminal LCDA's.
- Advanced balanced loop receive circuitry for highly effective common mode noise rejection
- Single-Ended and Redundant loop configuration capabilities
- Loop Statistics tool support for loop poll monitoring and loop noise level
- Sounder synchronisation across loops
- Walk test and silent walk test modes for zones
- Device locator LED test
- Dirty devices tool support for displaying and scrolling through dirty devices.
- Events upload via PC configuration tool. Exportable to html and can be imported into Excel spreadsheet
- Segmented log events storing a total of 1000 events in 8 separate event segments for fire, fault, pre-alarm, emergency, security, user, system, and disable events
- Day/night modes incorporating Normal, Investigation, Dependencies A, B and C and delays to outputs
- PC wizard for downloading and uploading Boot, Application and configuration files
- Support for up to 999 programmable zones
- Cause & Effect programming
- Intuitive resolve configuration wizards for extra, mismatched and missing devices

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Item Numbers		
8265-0110	FACP LoopSense CP10 1 Loop	
8265-0210	FACP LoopSense CP10 2 Loop	
8210-0001	LoopSense 2nd Loop Activation Key	
Panel Add-ons		
4310-0050	8 way Relay Board	
4310-0060	8 way Sounder Board	
4310-0082	8 Zone Conventional Board	
4310-0030	8 way Switch and Indicator Board	
4310-0085	32 Zone Alarm Mimic Card	
4310-0087	Zone Disable and Indicator Card	
4310-0083	Conventional Network Board	
159-0110	Printer	

Panel Add-ons (external to Panel)		
4310-0055	8-way Relay Board	
4380-0011	LoopSense SmartTerminal ABS	
4380-0012	LoopSense SmartTerminal inc PSU ABS	
4380-0013	LoopSense SmartTerminal Slimline ABS	

SpecificationsMaterial1.2mm steelFinish/ColourRedDimensions(mm)500H x 450W x 150DWeight10kgPower Supply3A PSU versionInput Voltage204 - 264VACProtection2Amp M205Output Current600mAPower Supply Qutput Voltage:7.5VDC +/- 0.1VDCPower Supply Qutput Voltage:100mVPower Supply Ripple Voltage:100mVPower Supply Fault - Volts High28VDCVolts Low26.5VDCCharger Output Voltage:27.5 +/- 0.1VDCBattery Type:2 x 12V Sealed Lead AcidMaximun Battery Capacity:17.2Ahr (Metal BX11), 7Ahr (ABSBattery Discharged Cut-off Volt135mALoop Capacity500mA maximumMax No of Detectors/Devices126Cabling Requirements2 core 1.5 to 2.5mm²Fault supervisionO/C, S/C, Over currentOutputs: (Programmable)3 x Voltage Free - 24VDC@1AAuxiliary VDC (Programmable)3 x Voltage Free - 24VDC@1AAuxiliary VDC (Programmable)2 x 24VDC @ 500mA Max, 10KComms Internal to FACPRS485Comms Printer portRS485Comms Printer portRS485Comms Printer portS232 or ParallelComms Printer port-5°C to + 40°CHumidity25% to 95% (non-condensing)	Constitution	
Finish/ColourRedFinish/ColourRedDimensions(mm)500H x 450W x 150DWeight10kgPower Supply3A PSU versionInput Voltage204 - 264VACProtection2Mmp M205Output Current3A mpsCharger Current600mAPower Supply Output Voltage:7.5VDC +/- 0.1VDCPower Supply Ripple Voltage:100mVPower Supply Ripple Voltage:26.5VDCCharger Output Voltage:27.5 +/- 0.1VDCBattery Type:2 x 12V Sealed Lead AcidMaximum Battery Capacity:8X1)age:21/VDCQuiescent Current (1 Loop)115mAQuiescent Current (2 Loop)126Cabling Requirements2 core 1.5 to 2.5mm²Fault supervision0/C, S/C, Over currentOutputs: (Programmable)3 x Voltage Free - 24VDC@1AAuxiliary VDC (Programmable)3 x Voltage Free - 24VDC@1AAuxiliary VDC (Programmable)3 x Voltage Free - 24VDC@1AAuxiliary VDC (Programmable)4 x 20/C, S/C, 10K EOLComms Internal to FACPRS485Comms Printer portRS485Comms Printer portRS232 or USB 2.0Temperature-5°C to + 40°C	Specifications	
Dimensions(mm)500H × 450W × 150DWeight10kgPower Supply3A PSU versionInput Voltage204 - 264VACProtection2Amp M205Output Current3AmpsCharger Current600mAPower Supply Qutput Voltage:27.5VDC +/- 0.1VDCPower Supply Riple Voltage:2000 VPower Supply Fault - Volts High28VDCVolts Low26.5VDCCharger Output Voltage:27.5 +/- 0.1VDCBattery Type:2 × 12V Sealed Lead AcidMaximum Battery Capacity:8X1)Battery Discharged Cut-off Voltage:2000mA maximumQuiescent Current (1 Loop)115mAQuiescent Current (2 Loop)200mA maximumMax No of Detectors/Devices200mA maximumFault supervision0/C, S/C, Over currentOutputs: (Programmable)3 × Voltage Free - 24VDC@1AOpen Collector (Programmable)3 × Voltage Free - 24VDC@1AAuxiliary VDC (Programmable)3 × Voltage Free - 24VDC@1AAuxiliary VDC (Programmable)3 × Voltage Free - 24VDC@1AAuxiliary VDC (Programmable)3 × Voltage Free - 24VDC@1AComms Internal to FACPR5485Comms Printer portR5232 or ParallelComms Printer portR5232 or USB 2.0Timerature-5°C to + 40°C	Material	1.2mm steel
Weight10kgPower Supply3A PSU versionInput Voltage204 - 264VACProtection2Amp M205Output Current600mAPower Supply Output Voltage:27.5VDC +/ 0.1VDCPower Supply Ripple Voltage:100mVPower Supply Fault - Volts High28VDCVolts Low26.5VDCCharger Output Voltage:27.5 +/ - 0.1VDCBattery Type:2 x 12V Sealed Lead AcidMaximum Battery Capacity:21.7.2 Ari (Metal BX11), 7Ahr (ABSBattery Discharged Cut-off Voltage:200mA maximumQuiescent Current (1 Loop)115mAQuiescent Current (2 Loop)126Cabling Requirements2 core 1.5 to 2.5mm²Fault supervision0/C, S/C, Over currentOutputs: (Programmable)3 × Voltage Free - 24VDC@1AAuxiliary VDC (Programmable)3 × Voltage Free - 24VDC@1AAuxiliary VDC (Programmable)3 × Voltage Free - 24VDC@1AComms Internal to FACPR5485Comms Printer portR5232 or USB 2.0Comms PC Interfacing5°C to + 40°C	Finish/Colour	Red
Power Supply3A PSU versionInput Voltage204 - 264VACProtection2Amp M205Output Current600mAPower Supply Output Voltage:27.5VDC +/ 0.1VDCPower Supply Riple Voltage:100mVPower Supply Fault - Volts High28VDCVolts Low26.5VDCCharger Output Voltage:27.5 +/ - 0.1VDCBattery Type:2 × 12V Sealed Lead AcidMaximum Battery Capacity:17.2Ahr (Metal BX11), 7Ahr (ABSBattery Discharged Cut-off Voltage:2 core 1.5 to 2.5mm²Quiescent Current (1 Loop)115mAQuiescent Current (2 Loop)200mA maximumMax No of Detectors/Devices2 core 1.5 to 2.5mm²Fault supervision0/C, S/C, Over currentOutputs: (Programmable)3 × Voltage Free - 24VDC@1AOpen Collector (Programmable)3 × Voltage Free - 24VDC@1AAuxiliary VDC (Programmable)2 × 24VDC @ 500mAAuxiliary VDC (Programmable)3 × Voltage Free - 24VDC@1AAuxiliary VDC (Programmable)3 × Voltage Free - 24VDC@1AComms Internal to FACPR5485Comms Printer portR5485Comms Printer portR5485Comms Printer portR5232 or USB 2.0Timerature-5°C to + 40°C	Dimensions(mm)	500H x 450W x 150D
Input Voltage204 - 264VACProtection2Amp M205Output Current3AmpsCharger Current600mAPower Supply Output Voltage:27.5VDC +/- 0.1VDCPower Supply Ripple Voltage:100mVPower Supply Ripple Voltage:28.VDCPower Supply Ripple Voltage:27.5 +/- 0.1VDCPower Supply Ripple Voltage:27.5 +/- 0.1VDCBattery Type:2 x 12V Sealed Lead AcidMaximum Battery Capacity:17.2Ahr (Metal BX11), 7Ahr (ABSBattery Discharged Cut-off Voltage:21/VDCQuiescent Current (1 Loop)115mAQuiescent Current (2 Loop)135mALoop Capacity500mA maximumMax No of Detectors/Devices126Cabling Requirements2 core 1.5 to 2.5mm²Fault supervision0/C, S/C, Over currentOutputs: (Programmable)3 × Voltage Free - 24VDC@1AAuxiliary VDC (Programmable)4 × 232 or DamaGomms External to FACPRS485Comms External to FACPRS485Comms Printer portRS232 or USB 2.0Comms Printer portRS232 or USB 2.0Temperature-5°C to + 40°C	Weight	10kg
Protection2Amp M205Protection3AmpsCharger Current600mAPower Supply Output Voltage:27.5VDC +/- 0.1VDCPower Supply Ripple Voltage:100mVPower Supply Fault - Volts High28VDCVolts Low26.5VDCCharger Output Voltage:27.5 +/- 0.1VDCBattery Type:2 × 12V Sealed Lead AcidMaximum Battery Capacity:17.2Ahr (Metal BX11), 7Ahr (ABSBattery Discharged Cut-off Voltage:21VDCQuiescent Current (1 Loop)115mAQuiescent Current (2 Loop)135mALoop Capacity500mA maximumMax No of Detectors/Devices126Cabling Requirements2 core 1.5 to 2.5mm²Fault supervision0/C, S/C, Over currentOutputs: (Programmable)3 × Voltage Free - 24VDC@1AOpen Collector (Programmable)2 × 24VDC @ 500mA Max, 10KComms Internal to FACPR5485Comms Printer portR5232 or ParallelComms Printer portR5232 or USB 2.0Temperature-5°C to + 40°C	Power Supply	3A PSU version
Output Current3AmpsCharger Current600mAPower Supply Output Voltage:27.5VDC +/- 0.1VDCPower Supply Ripple Voltage:100mVPower Supply Fault - Volts High28VDCVolts Low26.5VDCCharger Output Voltage:27.5 +/- 0.1VDCBattery Type:2 × 12V Sealed Lead AcidMaximum Battery Capacity:17.2Ahr (Metal BX11), 7Ahr (ABSBattery Discharged Cut-off Voltage:21VDCQuiescent Current (1 Loop)115mAQuiescent Current (2 Loop)135mALoop Capacity500mA maximumMax No of Detectors/Devices126Cabling Requirements2 core 1.5 to 2.5mm²Fault supervision0/C, S/C, Over currentOutputs: (Programmable)3 × Voltage Free - 24VDC@1AAuxiliary VDC (Programmable)2 × 24VDC @ 500mA Max, 10KComms Internal to FACPRS485Comms External to FACPRS485Comms Printer portRS232 or ParallelComms PC Interfacing5°C to + 40°C	Input Voltage	204 - 264VAC
Charger Current600mAPower Supply Output Voltage:27.5VDC +/- 0.1VDCPower Supply Ripple Voltage:100mVPower Supply Fault - Volts High28VDCVolts Low26.5VDCCharger Output Voltage:27.5 +/- 0.1VDCBattery Type:2 x 12V Sealed Lead AcidMaximum Battery Capacity:17.2Ahr (Metal BX11), 7Ahr (ABSBattery Discharged Cut-off Volt-8X1)age:21VDCQuiescent Current (1 Loop)115mAQuiescent Current (2 Loop)135mALoop Capacity500mA maximumMax No of Detectors/Devices126Cabling Requirements2 core 1.5 to 2.5mm²Fault supervision0/C, S/C, Over currentOutputs: (Programmable)3 x Voltage Free - 24VDC@1AOpen Collector (Programmable)2 x 30mAAuxiliary VDC (Programmable)2 x 24VDC @ 500mA Max, 10KComms Internal to FACPRs485Comms External to FACPRs485Comms PC InterfacingRS232 or USB 2.0Temperature-5°C to + 40°C	Protection	2Amp M205
Power Supply Output Voltage:27.5VDC +/- 0.1VDCPower Supply Ripple Voltage:100mVPower Supply Fault - Volts High28VDCVolts Low26.5VDCCharger Output Voltage:27.5 +/- 0.1VDCBattery Type:2 × 12V Sealed Lead AcidMaximum Battery Capacity:17.2Ahr (Metal BX11), 7Ahr (ABS)Battery Discharged Cut-off Voltage:21/VDCQuiescent Current (1 Loop)115mAQuiescent Current (2 Loop)135mALoop Capacity500mA maximumMax No of Detectors/Devices126Cabling Requirements2 c core 1.5 to 2.5mm²Fault supervision0/C, S/C, Over currentOutputs: (Programmable)3 × Voltage Free - 24VDC@1AAuxiliary VDC (Programmable)2 × 24VDC @ 500mA Max, 10KAuxiliary VDC (Programmable)4 × 0/C, S/C, 10K EOLComms Internal to FACPRS485Comms External to FACPRS485Comms Printer portRS232 or USB 2.0Temperature-5°C to + 40°C	Output Current	3Amps
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Battery Type:2 x 12V Sealed Lead AcidMaximum Battery Capacity:17.2Ahr (Metal BX11), 7Ahr (ABSBattery Discharged Cut-off Voltage:21VDCQuiescent Current (1 Loop)115mAQuiescent Current (2 Loop)135mALoop Capacity500mA maximumMax No of Detectors/Devices126Cabling Requirements2 core 1.5 to 2.5mm²Fault supervisionO/C, S/C, Over currentOutputs: (Programmable)3 x Voltage Free - 24VDC@1AOpen Collector (Programmable)2 x 30mAAuxiliary VDC (Programmable)4 x 0/C, S/C, 10K EOLComms Internal to FACPRS485Comms Printer portRS232 or ParallelComms PC InterfacingRS232 or USB 2.0Temperature-5°C to + 40°C	Power Supply Ripple Voltage: Power Supply Fault - Volts High	100mV 28VDC
Quiescent Current (2 Loop)135mALoop Capacity500mA maximumMax No of Detectors/Devices126Cabling Requirements2 core 1.5 to 2.5mm²Fault supervisionO/C, S/C, Over currentOutputs: (Programmable)4 x 24VDC @ 500mA Max, 10K EOLRelay outputs (Programmable)3 x Voltage Free - 24VDC@1A 2 x 30mA 2 x 24VDC @ 500mAOpen Collector (Programmable)3 x Voltage Free - 24VDC@1A 2 x 30mAInputs Programmable)4 x 0/C, S/C, 10K EOLComms Internal to FACPRS485 RS485Comms Printer portRS232 or Parallel Comms PC InterfacingComms PC Interfacing-5°C to + 40°C	Battery Type: Maximum Battery Capacity: Battery Discharged Cut-off Volt-	2 x 12V Sealed Lead Acid 17.2Ahr (Metal BX11), 7Ahr (ABS BX1)
Max No of Detectors/Devices126Cabling Requirements2 core 1.5 to 2.5mm²Fault supervisionO/C, S/C, Over currentOutputs: (Programmable)4 x 24VDC @ 500mA Max, 10K EOLRelay outputs (Programmable)3 x Voltage Free - 24VDC@1A 2 x 30mAOpen Collector (Programmable)2 x 24VDC @ 500mAAuxiliary VDC (Programmable)2 x 24VDC @ 500mAInputs Programmable4 x 0/C, S/C, 10K EOLComms Internal to FACPRS485Comms Printer portRS232 or ParallelComms PC InterfacingRS232 or USB 2.0Temperature-5°C to + 40°C		
EOLRelay outputs (Programmable)3 x Voltage Free - 24VDC@1AOpen Collector (Programmable)2 x 30mAAuxiliary VDC (Programmable)2 x 24VDC @ 500mAInputs Programmable4 x O/C, S/C, 10K EOLComms Internal to FACPRS485Comms External to FACPRS485Comms Printer portRS232 or ParallelComms PC InterfacingRS232 or USB 2.0Temperature-5°C to + 40°C	Max No of Detectors/Devices Cabling Requirements	126 2 core 1.5 to 2.5mm²
Comms Internal to FACPRS485Comms External to FACPRS485Comms Printer portRS232 or ParallelComms PC InterfacingRS232 or USB 2.0Temperature-5°C to + 40°C	Relay outputs (Programmable) Open Collector (Programmable)	EOL 3 x Voltage Free - 24VDC@1A 2 x 30mA
Comms External to FACPRS485Comms Printer portRS232 or ParallelComms PC InterfacingRS232 or USB 2.0Temperature-5°C to + 40°C	Inputs Programmable	4 x O/C, S/C, 10K EOL
	Comms External to FACP Comms Printer port	RS485 RS232 or Parallel
Humidity 25% to 95% (non-condensing)	Temperature	-5°C to + 40°C
	Humidity	25% to 95% (non-condensing)