

The AFP Range



Offering high performance at a competitive price, the AFP one or two loop analogue addressable fire panel supports System Sensor, Nittan or Apollo XP95 protocols. Fully compliant with EN54 Parts 2 and 4, it's wide range of features include 16 zonal alarm LEDs (expandable to 32), four separate independently programmable sounder circuits and an integral 24V 3amp switch mode power supply. The AFP can be programmed on-site via tactile switches on the panel front or via an easy to use, low-cost upload/download PC programme. Other features include a 999 event memory, delay timer and phased evacuation facilities, sophisticated test and maintenance facilities and a comprehensive 'auto-learn' facility allowing the panel to self-configure to devices connected to the loop.

- 16 zonal alarm leds provided as standard, expandable to 32 via AFP703 extension LED kit.
- Compatible with Apollo XP95, System Sensor or Nittan protocols.
- Panel supplied with one integral loop driver, expandable to two via AFP702 plug-on loop driver.
- Easy-to-read 80 character back-lit display
- 40 characters of custom text available per device.
- Four separate independently programmable sounder circuits rated at a total of 3A.
- Powerful short circuit protected loop drivers.
- Up to 32 loop driven sounders per loop.
- Integral 24V 3A EN54 switch mode psu, rated @ 185-260Vac, 50-60 Hz. (1.5A PSU ON AFPE)
- Alert, Reset, Silence and Class Change inputs.
- Fire, Fault, Pre-alarm, Reset and +24V Aux. outputs.
- Remote Signal Output (to remote manned centre).
- Space for 7AHr sealed lead acid batteries.
- Earth fault monitoring.
- 999 event memory.
- Programmable sounder/remote output delay facilities (per zone)
- Phased evacuation facility.
- RS232 port provided for connection to external serial printer or upload/download PC.
- One AFP711 Network Driver Card (fitted to the RS485 port on the master panel) allows the connection of up to 15 AFP Repeaters per system (Repeaters are not compatible with AFPE Economy Panels).
- Sophisticated test and maintenance facilities.
- Panel can be programmed on-site via tactile switches on panel front or via an easy to use, low-cost upload/ download PC programme.
- Comprehensive 'Auto-Learn' facility allows panel to self configure to devices connected to the loop.
- Push button entry code access protection.
- Detailed description of faults on LCD display.
- Intuitive language-free legend on main label allows cost-effective customising of smaller label with customers own logo and/or foreign language text.

AFP Range *key features / technical specifications*

POWER SUPPLY SPECIFICATION	
Mains supply voltage	230 Va.c. ± 10% 50/60Hz
Internal power supply	27Vd.c.
Total output current limited to	3A @ 230 Va.c. (1.5AonAFPE)
Auxiliary power output	27 Vd.c. Nominal monitored
for failure	Yes
Battery charger monitored for failure	Yes
Batteries monitored for disconnection & failure	Yes
Quiescent current drain (1 loop unloaded)	<80mA
Quiescent current drain (2 loop unloaded)	<100mA
Earth fault monitoring	Yes - any conductor to Earth
Temperature compensated charging	Yes
DETECTOR LOOP DRIVER SPECIFICATION	
Maximum number of Loop Drivers allowed	2 (1 on AFPE)
Maximum cable length per loop	1Km
Line Fault monitored for Open Circuit	Yes
Line Fault monitored for Short Circuit	Yes
Onboard loop isolators with LED indication when active	Yes
Auto-Polling from each loop end	Yes
Maximum allowable loop impedance (each conductor)	20 Ohm
Maximum cable capacitance	.27uF
Maximum loop output current	350mA
Peripheral modules supported	Yes - as detailed in manual.
Max no. addressable points per loop (Apollo XP95)	126
Max no. addressable points per loop (System Sensor)	99 sensors + 60 modules
LOOP POWERED SOUNDERS	
Number of programmable Groups	15
Maximum number per loop (Apollo XP95)	32
Maximum number per loop (System Sensor)	32
PANEL CONVENTIONAL SOUNDER CIRCUIT SPECIFICATION	
Number of Programmable circuits	4
End of Line Resistor Value	6800 Ohm 5% Tol. 0.25W
Line Fault monitored for Open Circuit	Yes
Line Fault monitored for Short Circuit	Yes
Outputs fused at	1 Amp
Maximum total output current all outputs	3 Amps (1.5Amps on AFPE)
Maximum No. of Bells @ 25 mA	120 (60 on AFPE)
Maximum No. of electronic sounders @ 20 mA	150 (75 on AFPE)
AUXILIARY OUTPUTS	
Max sink current	100mA each (300mA total)
Type	Open Collector
Max open circuit voltage	27Vd.c.
Reset Output	Active low during reset cycle
Remote Output (to manned centre)	Active low during any fire condition + isolate/delay facility
Pre-Alarm Output	Active low during any pre-alarm condition
Fire1 Output	Active low during any fire condition
Fire2 Output	Active low during any fire condition <i>unless silenced</i>
Fault	Active low when NO faults are present - failsafe to o/c
24v Aux Power Output	1 Amp - fused
FUSES	
Mains Fuse	1A HRC Ceramic 20mm
Sounder Outputs (F1, F2, F3, F4)	1A F 20mm
Auxiliary Output (F5)	1A F 20mm
Battery Fuse	3A F 20mm
All fuses compliant to IEC (EN60127 PT2)	
AUXILIARY INPUTS	
Reset	0V Trigger (active low)
Silence	0V Trigger (active low)
Class Change (Evacuate)	0V Trigger (active low)
Alert (Phased Evacuate)	0V Trigger (active low)

CONNECTION BLOCK	
Plug on Type - largest acceptable conductor size = 1.5mm	
FRONT PANEL CONTROLS & INDICATORS	
Control Buttons	Silence, Reset, Evacuate
Scroll/Menu Access Buttons	Up (1); Down (2); Accept (3); Abort (4)
Liquid Crystal Display	2 lines x 40 Characters (backlit)
LED Indicators	1 x General Fire (red)
	16 x Zonal Fire, expandable to 32 (all red)
	1 x System Energised (green)
	1 x Pre-Alarm (amber)
	1 x Remote Output Activated (red)
	1 x Menus Accessed (amber)
	1 x Disablement (amber)
	1 x Test (amber)
	1 x Remote Output Disabled (amber)
	1 x Silenced (amber)
	1 x General Fault (amber)
	1 x System Fault (amber)
	1 x Sounder Fault (amber)
	1 x PSU Fault (amber)
APPROXIMATE DIMENSIONS	
Back Box (W x H x D)	410 x 250 x 80mm (metal)
Lid (W x H x D)	435 x 270 x 5mm (metal) 439 x 274 x 7mm (plastic)
Weight (without batteries)	4.5Kg
CABLING	
Fire proof, screened cable (min. size 1mm)	
PROGRAMMING & PRINTER CONNECTION	
2 x RS232	1 x Plug on connector and 1 x 0.1 Molex header
PROGRAMMING METHODS	
(1) On site using the AFP's fascia buttons.	
(2) On or off-site using a Windows-based PC running the AFP upload/download software.	
MENU ACCESS LEVELS	
Access Level 1	Scroll events
Access Level 2	Silence, Reset, Evacuate
	Override delays
	View active Fire, Pre-Alarms, Faults & Disablements
	Disable / Enable Points, Zones and Outputs
	Set time and date
	Change User PIN code
	Review event log
Access Level 3	View and edit Point information
	View and assign a zone's sounder configuration
	Set delays / Assign phased evacuation
	Set next maintenance date
	Change User and Engineer PIN code
	Invoke Commissioning utilities
	Invoke Test and Maintenance utilities
	Clear event log
SITE SPECIFIC DATA	
User and Engineer Pin Code	
40 Characters free text for company name, etc	
Next due maintenance date.	
Data protected by internal manual link	
Configuration may be edited via front panel buttons or a PC programme running Windows 95.	
We reserve the right to alter product specifications without prior notice. Errors and omissions excepted.	