

Features:

- **Dedicated Agent Release system** - purpose built with a host of ancillary products to suit
- **Comprehensive system status** – the AR panel includes a number of system status indicators that facilitates ease of operation and maintenance
- **Local Control Station with control and indication** – mimics full status of the Agent Release panel. An outdoor version of this product is available
- **User interface and operation based around Industry Fire Emergency procedures** – ensures that the system installed is intuitive and easy to use
- **Panel is robust and reliable** – the Agent Release is based on a tried and tested ZoneSense PLUS
- **Dual action Manual Call Point** – the yellow MCP is a break glass type and requires a dual action to be activated i.e. lift the protective transparent cover and break the glass
- **Agent Release Panel Add-on available** – an agent release module is available as an upgrade for both ZoneSense PLUS and FireFinder Fire Alarm Control Panels
- **Agent Release Panel is compliant with AS4214**



ZoneSense PLUS AR (Agent Release) FACP

Description

The **ZoneSense PLUS** AR (Agent Release) Panel is a dedicated panel for agent release systems.

Housed in a metal cabinet, the **ZoneSense PLUS** AR is available in either four (4) or eight (8) zones.

Based on a ZoneSense PLUS Fire Alarm Control Panel (FACP), the AR version is fitted with an Agent Release Panel Add-on (control card and termination board) and a dual action yellow manual call point as standard. The Agent Release panel add-on option is factory set.

Each zone can accommodate up to 40 conventional detectors that can be programmed to function in one of the following modes:

1. Normal (latching)
2. Alarm Verification Facility (AVF)
3. Non-latching
4. Self Reset
5. Dual selectable Agent Release

Up to four (4) Local Control Stations (LCS) can be connected remote to the AR panel. An operator may manually release, or inhibit release of, the agent from any of these LCS's.

In addition to manual controls at the LCS, eight (8) system status indicators are also available. These system status indicators are updated in real-time and gives the operator reliable and up-to-date information. This facilitates ease of maintenance and quick response in the event of an alarm condition.

LCS's come in indoor or outdoor versions.

As part of a system solution, Ampac also offers other ancillary devices such as:

- a) Orbis conventional detectors,
- b) Warning signs, and
- c) Audible devices.

FireFinder FACP also supports the Agent Release System. The Agent Release Panel Add-on is available as a kit, complete with cables and documentation, to facilitate easy installation. A yellow manual call point is required to be installed adjacent to the FACP. This yellow manual call point is supplied with a hinged cover and is a requirement in AS4214 Agent Release Systems. The FireFinder FACP will need to be re-programmed using ConfigManager to activate the Agent Release panel add-on. **(NB: check to ensure FireFinder has correct version application software)**

For upgrades to existing FireFinder or ZoneSense PLUS FACP's, please contact your nearest Customer Service Office.

Technical

The Agent Release panel can be configured to operate in a single group or dual group mode.

In a single group mode of operation, only one (1) zone circuit is configured as an 'agent release'. A detector in alarm, associated with this type of zone, will initiate a stage 2 condition. The timer is activated and upon expiry the agent is released.

In a dual group mode the operator can configure up to four (4) zones as an 'agent release'. When a detector in any zone programmed as an 'agent release' goes into alarm, Stage 1 is activated. Subsequently when a detector in any other zone that is programmed as an 'agent release' goes into alarm, Stage 2 is activated and the timer starts. Upon expiration of the timer, the agent is released.

The AR panel supports Pyrogen agent or agents released using either Metron or a solenoid.

The activation of "Agent Inhibit" switch disables the automatic release of the agent.

Inputs to the AR panel include:

- ✓ Pressure switch – monitors release of agent
- ✓ Low pressure switch – active if pressure in an agent storage cylinder drops below a set level
- ✓ Interlock – active if the agent release manual lock-off valve has been operated

Main and reserve agent release storage cylinders are supported. The circuit between the panel and the cylinders is monitored for short and open circuit.

Connection from the AR panel to the LCS is via RS485 communications protocol. Subsequent LCS's are connected in a 'daisy chain' wiring configuration.

The AR panel supports a 2-wire connection to warning signs. The 2-wire connection supports both single or dual stage signs. The latter is possible because of the voltage reverse technology adopted by the AR panel. Multiple warning signs may be connected to the AR panel. The connection will be in a 'daisy chain' configuration with the last warning sign fitted with an End-Of-Line (EOL) resistor. The EOL resistor facilitates the monitoring of the warning sign circuit. A maximum of 6 warning signs may be fitted to an AR panel.

An on-board buzzer fitted to every sign provides audible warning. However in the event AS1670.4 audible warning tones are required, external electronic sounders may be connected directly to each warning sign. An external switch may be connected to the sign to mute audible warning.



Orbis Conventional Smoke Detector



Local Control Station
(Indoor Version)



Warning Sign (Do Not Enter)
(Indoor Version)



Warning Sign (Do Not Enter)
(Outdoor Version)

Indicators & Controls (Agent Release System only)

INDICATORS		CONTROLS
Description	Colour	
Manual Activation	Red	Controlled Access
Automatic Activation	Red	Agent Select
Agent Discharged	Blue	Agent Inhibit
Lock-off Valve Inhibited	Yellow	Manual Release
Stage 2 Timer running	Yellow	
Agent Circuit Fault	Yellow	
Agent Low Pressure	Yellow	
Trigger Zone Isolated	Yellow	
Common Fault	Yellow	
Interlock	Yellow	
Initial Agent	Yellow	
Reserve Agent	Yellow	

Item Numbers

Item Number	Description
Panels	
2550-0151	ZoneSense PLUS AR 4 Zone (AS)
2550-0252	ZoneSense PLUS AR 8 Zone (AS)
2555-0151	ZoneSense PLUS AR 4 Zone (NZ)
2555-0252	ZoneSense PLUS AR 8 Zone (NZ)
8510-9001	Ancillary Cabinet (metal)
ENC1793-A	Surround for metal cabinet
ENC1797-A	Surround for metal cab with batt box
Local Control Stations	
4310-0019	Local Control Station
4310-0022	Local Control Station IP65
Ancillary Products	
4310-0011	Agent Release Panel Add-on
213-0061	ACP-04 Manual Call Point Yellow
213-0057	ACP-04 Manual Call Point Hinged Cover
207-0020	Warning sign back box (IP50) no fascia
207-0021	Special wording fascia only
207-0022	"Fire Alarm, Do Not Enter" fascia only
207-0023	"Fire Alarm, Evacuate Area" fascia only
207-0024	"Fire Door Closing" fascia Only
207-0025	"Do Not Enter, Gas Discharged" fascia only
207-0040	"Extinguishing System Inoperative" complete IP50
207-0030	Warning sign back box (IP65) no fascia
207-0031	Special wording fascia only
207-0032	"Fire Alarm, Do Not Enter" fascia only
207-0033	"Fire Alarm, Evacuate Area" fascia only
207-0034	"Do Not Enter, Gas Discharged" fascia only
207-0041	"Extinguishing System Inoperative" complete IP65

Specifications

Fire Alarm Control Panel			
Operating Voltage	23 to 28 VDC		
Quiescent Current	37 mA (minimum)		
Power Supply	27VDC (nominal) @ 2Amps		
Ext Bell Output	1A (max) – monitored		
Warning Sys Output	1A (max) – monitored		
ACF Output	1A (max) – monitored		
ASE Output	1A (max) – monitored		
Fire Alarm Output	Volt free 1A @ 24 VDC Open Collector Output		
Fault Output	Volt free 1A @ 24 VDC Open Collector Output		
Aux DC Output	500mA @ 24 VDC – monitored		
Reset/Buzzer	Open Collector Output		
Communications Output	RS485		
End-Of-Line Values	3k3 (fitted as standard), 4k7, 6k8, or 10k ohms, 10µ Farad		
Material	1.2 mm mild steel		
Finish	Oyster matt ripple		
Dimension (mm)	Height	Width	Depth
	Metal Cabinet	500	405
	Metal ancillary cabinet	250	405
Weight (excluding batteries)	8kg		

Agent Release System

Pressure Switch Input	Monitored Input
Low Pressure Switch Input	Monitored Input
Interlock Input	Monitored Input
Gas Fired Output	Volt Free Changeover 1A@24VDC
System Inoperative Output	Volt Free Changeover 1A@24VDC
Stage 1 Output	Monitored
Stage 2 Output	Monitored
Release Initial Agent Output	Monitored current limited 2A max
Release Reserve Agent Output	Monitored current limited 2A max

Local Control Station

	Indoor Version only
Material	1.2mm steel for Back Box
Finish	Oyster matt ripple
Dimension (mm)	233Hx186Wx47D
Weight	860 grams
Operating Voltage	27VDC
Quiescent Current	40.5mA
Monitored Inputs	Pressure Switch Low Pressure Switch Interlock
Manual Release	2A @ 27VDC (Current Limited)
Stage 1 & 2	Switched 1A @ 27VDC
System Inoperative	1A @ 27VDC
Gas Fired	1A @ 27VDC
Comms Output	RS485