

PERTRONIC INDUSTRIES LTD

DATASHEET

Extinguishing Agent Release Panels



Overview

The Pertronic Extinguishing Agent Release System provides automatic control of one or more fire suppression systems.

The system is based on a Pertronic F16e, F100A, or F220 fire panel, together with the Pertronic Extinguishing Agent Release Controller (ARC).

A single Pertronic agent release control panel may be fitted with multiple ARCs. Each ARC provides control, fault supervision, and monitoring for one fire suppression system.

The control panel has one Pertronic Agent Control Station for each ARC. The Agent Control Station has a keyboard and display panel providing status and fault indication for the associated ARC and the suppression system.

In addition to the control station mounted on the panel, each ARC may communicate with up to nine additional control stations.



F100A Extinguishing Agent Release Panel

Features

- » Fire suppression control system based on Pertronic F16e, F100A, or F220 fire panel
- » A Pertronic Extinguishing Control Panel may be fitted with multiple Agent Release Controllers (ARC)
- » Available in a range of cabinet sizes
- » Automatic or Manual agent release process
- » Automatic release can be disabled or aborted from any control station
- » Multiple controllers can be manually triggered from single device
- » Meets the requirements of AS ISO 14520.1–2009

Typical Specifications (based on F100A fire panel in 600 mm cabinet)

Power Supply	200 to 240 Vac, 50/60 Hz, 210 W	
Current	Quiescent	180 mA @ 27.4 Vdc
	Alarm	536 mA @ 27.4 Vdc (plus AV signs, detonation out load)
Battery Charger	Integral Float Charger, 27.4 Vdc, 1.2 A	
Battery Type	Sealed Lead Acid (Gel Cell), 2 x 12 Vdc, 7 to 21 AHr (internally mounted)	
Detector Capacity	99 detectors per loop	
Number of Loops	2	
Agent Release Controller	Multiple Agent Release Controller boards may be installed in a control panel	
Local Control Display Stations	Max 9 per Extinguishing Agent Release Module	
Monitored Detonation Output	24 V @ 2 A	
Operating Temperature	0 to +40 °C	
Operating Environment	10 to 95% RH (non-condensing)	
Dimensions (FS cabinet) (H x W x D mm)	600 x 400 x 130 mm	
Weight	15.3 kg (excluding battery)	
Material	1.2 mm mild steel, powder coated	
Colour	Cabinet RAL 9001	

Extinguishing Agent Release System: Typical Connections



For detailed specifications, please refer to the following Pertronic datasheets:

- » F220 Fire Panel Datasheet
- » F100A Fire Panel Datasheet
- » F16e Fire Panel Datasheet
- » Extinguishing Agent Release Controller Datasheet
- » Control Station for Agent Release Controller Datasheet
- » Audio-Visual Sign Datasheet
- » Weatherproof Visual Sign Datasheet

Ordering Information & Notes

Product Code	Description
F220FS-ARC	F220 2 Loop Suppression Control Panel, FS, with Agent Release Controller
F100AF-ARC	F100A 2 Loop Suppression Panel, FS, with Agent Release Controller
F100ATF-ARC	F100A FS 2 Loop 900mm Cab 4A PSU, with Agent Release Controller
F100ATF-2ARC	F100A 2 Loop 900mm Cab. FS, with Two Agent Release Controllers
F16ELF-ARC	F16e 8cct LPFS 600mm Panel, with Agent Release Controller
F16ELF-2ARC	F16e 8cct LPFS 600mm Panel, with Two Agent Release Controllers
ACS-FM	Agent Control Station for AR System, Flush Mount
ACS-SM	Agent Control Station for AR System, Surface Mount
LCS-FM	Local Control Station for Agent Release Controller, Flush Mount
LCS-SM	Local Control Station for Agent Release Controller, Surface Mount
AVS-B	Audio Visual Sign (Requires Separate Fascia)
AVS-C	Audio Visual Sign c/w Countdown Timer (Requires Separate Fascia)

This information must not be treated as partial or complete instructions for the design, construction, installation, commissioning, or maintenance of fire detection, fire alarm, or building evacuation systems. Fire and evacuation systems must be designed and installed by properly qualified persons, in accordance with all regulatory requirements.

Unless explicitly stated otherwise, this document provides typical specifications and nominal dimensions. Actual product performance and dimensions may vary.

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