

PERTRONIC INDUSTRIES LTD

DATASHEET

Residential Fire Panel

FH1, FR1



Overview

The Pertronic Residential Fire Panel (FH1, FR1) is a cost effective, easy to use single zone, two-wire fire alarm system for the residential housing market. The panel provides a fault-supervised fire detection and sounder zone over a single two-wire connection.

This simple to install unit is housed either in a dual gang flush box or in a surface mount enclosure.

The facia has an intuitive user interface with clear operating instructions. A front-panel Hush facility silences the sounders for 2 minutes, to allow occupants to deal with nuisance alarm issues such as smoke from cooking.

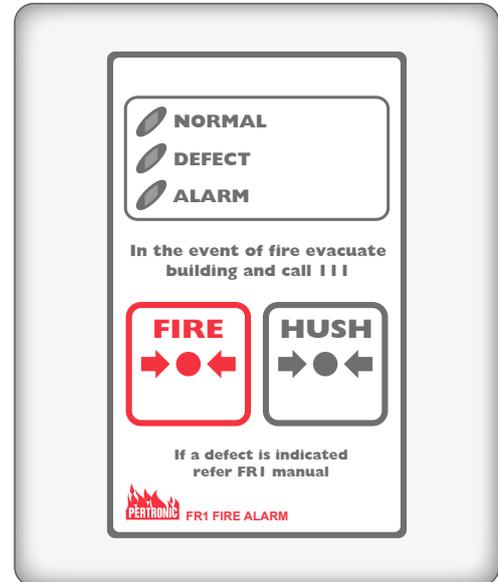
An onboard rechargeable battery provides 48 hour standby in case of mains failure.

The Residential Fire Panel supports the System Sensor 2WTA-B combined heat and smoke detector with built-in sounder. The panel is also compatible with Pertronic manual call points and heat detectors; together with System Sensor 100-series conventional detectors, and conventional alarm devices.

Built-in Fire, Defect and Test relays allow interfacing with other equipment.

Features

- » Two-wire single zone combined detection and alarm system with full defect supervision
- » Up to 10 System Sensor 2WTA-B combination heat & smoke detectors with built-in alarm sounders
- » Sprinkler input with defect supervision
- » Mains-powered
- » Protected charging connection for 12 V 1.2 Ah gelcell battery (not included)
- » 48 hour mains failure stand-by period, when fitted with recommended battery
- » Intuitive front panel user interface
- » Hush function
- » Automatically resets detectors at the end of the Hush period
- » Flush or surface-mount versions
- » Fire, defect and test changeover relays
- » Earth defect monitoring
- » Compatible with standard PDL dual flush cover
- » Supplied with Surface Mount or Flush Mount back box



*Pertronic Residential
Fire Panel (FR1)*

Specification

Mains Power		230 Vac, 50 Hz, 1.5 VA
PSU Output		13.7 Vdc, 120 mA
Internal Battery (not included)		12 Vdc, 1.2 Ah, Gelcell
Normal Current		14.5 mA
Alarm Current		33 mA
Dimensions (H x W x D)		150 x 122 x 70 mm
Weight		900 g (incl. battery)
Material	Cover	ABS (white)
	Surface Mt Box	1 mm mild steel (white powder coated)
Operating Temperature		0 to +40°C
Humidity		10 to 95% RH (non-condensing)

FH-1/FR-1-SM



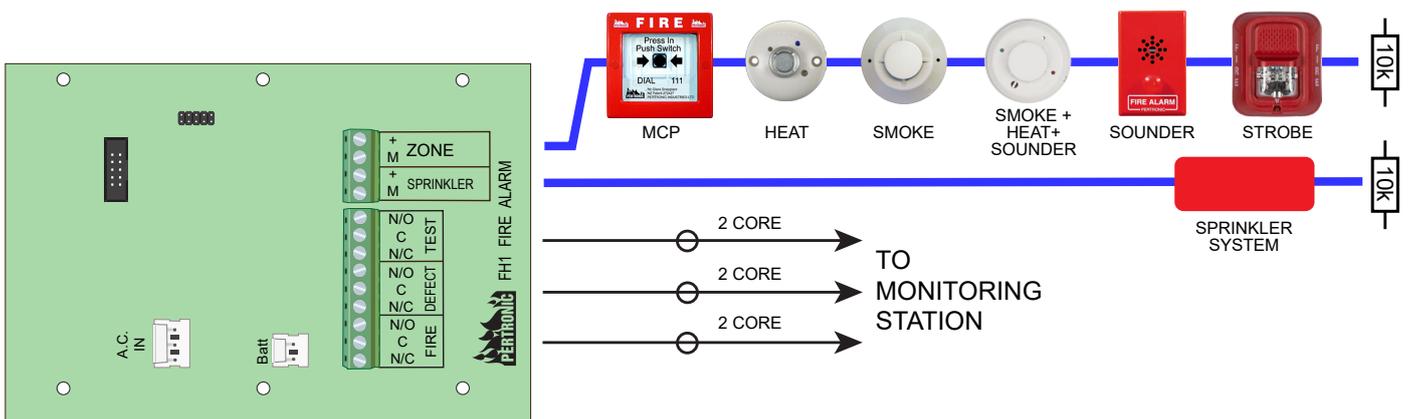
Surface Mount

FH-1/FR-1-FM



Flush Mount

Connection Diagram



Ordering Information

Product Code	Description	Product Code	Description
Fire Panels		Detectors	
FH1-FM	HNZC Flush Mount Panel w/sprinkler input	2WTA-B	i3 Series Photo/Heat Detector + Sounder
FH1-SM	HNZC Surface Mount Panel w/sprinkler input	THDB-57C	Thermistor Heat Detector, Blue, 57 °C
FR1-FM	Residential Panel Flush Mount w/sprinkler input	THDY-77C	Thermistor Heat Detector, Yellow, 77 °C
FR1-SM	Residential Panel Surface Mount w/sprinkler input	2151BPI	Photo-Electric Smoke Detector, excl. base
FH1-BO	Braille overlay, Fire & Hush	B401R	Base for 2151BPI, with 470 series resistor
Alerting Devices		Manual Call Points	
PS1-R	Pertronic Sounder Flush Mount Red	CPPIN-3T	Conventional Indicating MCP Flush Mount
PS1-W	Pertronic Sounder Flush Mount White	CPPIN-3TWP-MK2	Conventional Indicating MCP Weatherproof
SRL	L-Series 2-Wire Strobe 12/24V	MCPBACKBOX	Pertronic MCP Back Box

The information in this document 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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