



Addressable Modules

AS/NZS 1668 Fan Control and Interface Modules

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The Pertronic Fan Control System is used by Pertronic addressable fire alarm systems to monitor and control the fans associated with AS/NZS 1668 smoke control systems within buildings. The Pertronic Fan Controller has been designed to comply with the requirements of AS/NZS 1668.

The Fan Controller is easily set up and incorporated into a Pertronic addressable fire alarm system. The controller's simplicity of design and operation, coupled with its microprocessor based solid state circuitry, makes the unit flexible and reliable.

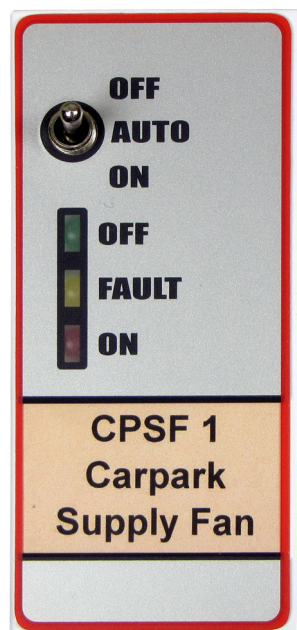
The Fan Controller is used to control a fan through a building services interface and consists of two main modules with an optional third module used for reset purposes.

The Fan Control Module is normally mounted at the fire alarm panel and incorporates a mode switch (OFF, AUTO and ON), fan state indicator LEDs, and the AS 1668 timing and control functions. A window is provided for a slide-in label for each Fan Controller. A separate version is available specifically for the F120 control panel where the timing and control functions are done by the panel if dedicated controllers are not required. Slave Controllers may also be used where the mode switch from one controller can control multiple fans, maintaining individual fan status indication.

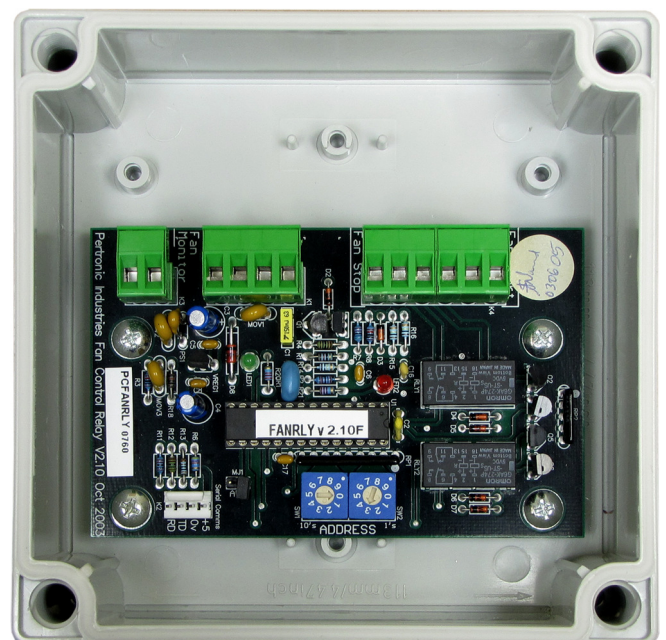
The Fan Control Relay (Interface) Module, is normally located near the mechanical services switchboard that controls the fan, and is commanded by the Fan Control Module to start and stop the fan. The Fan Control Relay Module also reports back to the Fan Control Module whether the fan is running, stopped, or has a fault condition. This module cannot be used if the F120FCSU Fan Control Switch Units are used in place of the F100PCFU controllers. In this case standard input and output modules must be used for the interface, such as the M500DMR.

The Fan Reset Unit is used to un-latch the fire state to the Fan Control Module. The latched state can only be cleared by the on-board Reset switch on the Fan Reset Unit.

The Control and Interface Modules are linked together by the addressable loop (the modules must all be on the same loop when wired to a Fan Reset Unit)










Fan Control Unit



Fan Interface Unit

Specifications:

 Dimensions:	Fan Control Unit	35W x 85H x 50D (mm), usually mounted in the fire alarm cabinet
	Fan Interface Unit	107W 70H x (mm) pcb with mounting holes
	Fan Reset Unit	35W 85H 50D (mm), usually mounted in the fire alarm cabinet
 Power Requirements:	Fan Control Unit	10mA (one LED on), loop powered
	Fan Interface Unit	3mA, loop powered
	Fan Reset Unit	7mA (LED off), loop powered
 Controls and Indication	Fan Control Unit	Three position switch: AUTO Fan Controller operation is initiated by the state of the panel detectors and controls OFF the fan is turned off manually ON the fan is turned on manually Three Indicators LEDs: FAN OFF Indicates that the fan is off FAN FAULT Indicates that the fan is in a fault state FAN ON Indicates that the fan is running Jumper Fan function selection: Exhaust Insert for exhaust/pressurisation fan systems Remove for clean air fan system
	Fan Interface Unit	Two control relays: Fan On 24Vac, 2A c/o contacts. Energise for fan on Fan Off 24Vac, 2A c/o contacts. Energise for fan off Monitored input: 10K: 'Fan Off' normal condition Open cct: 'Fan Fault' condition Short cct: 'Fan On' running condition
	Fan Reset Unit	Reset: Momentary action reset switch Lamp Test: Tests all Fan Controller LED indicators
 Clean Air Turn On Delay:		Subsequent to a clean air fan shutdown in AUTO mode, the fan will not be turned back on until the associated clean air detectors have been smoke free for 65 seconds
 Addressing:		Each Fan Control and Fan Interface Unit pair (controlling one fan) take two consecutive addresses in the module address space. The Fan Control Unit has the lower address
 System Capacity:		Up to 25 Fan Control / Interface pairs can be installed on each loop
 Multiple Control Option:		A group of fans on a loop may be controlled by one mode switch on a Fan Control Unit. Each fan will have a Fan Control Unit with it's Indicator LEDs, but only one Fan Control Unit of the group will have the mode switch, controlling all the units within the group

Installation and configuration should be undertaken in conformance with the requirements of AS/NZS 1668.

Ordering Information:

Description	Part Number
Fan Controller Unit	F100PFCU
Fan Controller Slave Unit	F100PFCSLV
Fan Controller Relay Module	F100PFCR
Fan Controller Reset Unit	F100PFCRESET
F120 Fan Control Switch Unit	F120FCSU
F120 Fan Control Slave Switch Unit	F120FCSLVSU
F120 Fan Control Reset Unit	F120FANRST

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