

Residential Fire Panels

Residential Fire Alarm System

Model BARFS-1

- The Brooks **BARFS-1** Residential Fire Panel is specifically designed for residential applications, its primary purpose, to provide reliable early warning of a developing fire so that the occupant is given the maximum time to escape to a place of safety.
- Fire is not just heat, consideration needs to be given to the smoke and toxic gases generated in all house fires.
- Brooks recognises that residential applications require special consideration; the BARFS-1 must be flexible, have design integrity, be reliability and be conscious occupant amenity.
- The BARFS-1 has features that allow the occupant to use and manage the system, but controls that prevent accidental disablement.



System Overview

The Residential Fire Safety System **BARFS-1** complete with compatible smoke / heat alarms and auxiliary devices provides a complete single zone automatic fire detection and alarm system for residential applications.

The BARFS-1 is designed to meet the requirements of the Building Code of Australia - (Smoke Alarm System) and incorporates smoke alarms to Australian Standard AS3786; and heat alarms to Australian Standard AS1603.3.

The **BARFS-1** system consists of a control panel, operator module which provides both status indication and function controls, smoke and heat alarms. The 200 series smoke and heat alarms are designed to be installed in conjunction with the BARFS-1 control panel as an external power source. For the hearing impaired or deaf a pillow shaker and strobe are available

The **BARFS-1** system has a generic input/output module as an alarm zone device; it enables remote control of ancillary equipment, interfacing to sprinkler flow switch/any dry contact input, provides alarm relay contacts and a non supervised 12V alarm output.

The connection between the operator module and control panel is via RS485, which allows the operator module to be located remote from the control panel itself, an advantage in multi-storey dwellings. A maximum of 2 operator modules can be fitted to the system.

The power supply of **BARFS-1** is fully supervised for fault condition; mains fail, battery disconnected, charger high or low and battery low. The alarm zone wiring is supervised for both an open and short circuit condition

The **BARFS-1** has both an alarm and fault output for either remote monitoring and/or the operation of ancillary equipment. For an alarm condition; two priorities can be selected. Priority 1 activates the alarm output relay and initiates the sounder in each smoke/heat alarm. Priority 2 activates only the smoke/heat alarm sounders. An important feature of the BARFS-1 is its ability to discriminate between the activation of a smoke or heat alarm. This combined with the alarm priority selection enables enhanced flexibility in system design to overcome the effects of nuisance alarms



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and provide for the integration of the **BARFS-1** to other alarm systems. **BARFS-1** provides not only a truly Deemed to Satisfy Solution but includes additional functions and facilities to allow design flexibility for customising the installation to the application.

Remember: your **BARFS-1** has been installed to protect you by raising the alarm and maximising your time to escape to safety, if you tamper with it, misuse it or fail to maintain; its performance cannot be guaranteed, you will be putting both you and your family at risk.

Overview

The basic configuration of Brooks **BARFS-1** consists of a control panel, containing the main processor/termination board and the operator module containing the display and control board. The processor/termination board is a microprocessor based system that utilises state of the art components. It provides the control functions, monitoring, power supply, supervision and terminations to the field devices.

The Display board contains indicators, function switches and the interface to the processor/termination board. Interface between main and display board is via an RS485 bus (4 wires) which allows for the display board to be remotely installed.



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Compatible Devices

Device	Description
EIB204T	Heat Alarm 58 to 64°C
EIB206P	Photoelectric Smoke Alarm
EIB207V	Vibration Pad (pillow shaker)
EIB208ST1	High Intensity strobe for Sleeping Area
EIB208ST2	Strobe for Living Area
EIB209IO	Generic Input / Output Module

Devices Current Consumption

Device	Quiescent mA	Alarm mA
EIB204T	8.1	25
EIB206P	8.1	27
EIB207V	8.1	100
EIB208ST1	8.1	700
EIB208ST2	8.1	250
EIB209IO	8.1	25



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Feature	Specification
Enclosure	Zinc steel 1.6mm powder coated oyster Dimensions 280mm H x 305mm W x 75mm D
Power Supply	Input voltage 85-264V AC, 40W switch mode power supply Output 13.5-16.5V DC, Typical 13.8V Current 3 Amp Note: Larger power supply 60W is available on request
Standby Supply	12V / 7AH Sealed lead acid battery
Nominal Voltage	13.8V dc
Current Draw	90mA Single Display 130mA Dual Display
Operating Temperature	0°C to +50°C
No. of Alarm Circuits	One supervised circuit with discrimination between heat alarm / manual actuation and smoke alarm (priority 1 & priority 2)
No. of Devices per Circuit	15 Smoke/Heat Alarms, and or 15 MCP, Sprinkler Clean Contact, and or 3 Strobe Modules, and or 4 Vibration Patrice Modules Note: current consumption must be calculated using "Battery capacity calculation sheet" page 49
Zone Monitoring	Wiring loop in / loop out to smoke / heat alarms and zone devices fully supervised by active end of line device
Alarm Output	Supervised 12Vdc / 1A fused output 1 set of changeover clean contact
Fault / Defect Output	1 set of changeover clean contact
Fault / Defect Mode	Initiated by abnormal system condition: 1. Power Supply fault, mains fail, battery low or removed, etc 2. Alarm circuit wiring open or short circuit 3. Supervised alarm output open or short 4. Device removed 5. Communications fault 6. Memory fault
Control Switches	Ack Silences panel buzzer until another event occur Locate Silences all smoke / heat alarms except those that have actuated, restores after approximately 5 minutes. Locate LED illuminates during the 5 minutes timer Mute Silences all smoke / heat alarms, restores after approximately 10 minutes. Mute LED illuminates during the 10 minutes timer Test activates all smoke / heat alarm sounders, vibration pad and strobes, during test, the test LED illuminates
Visual Indications	Power ON LED, mains power available Alarm LED, priority P1 alarm or Priority P1&P2 alarm Defect LED common defect / fault
Keypad	1. One keypad per panel and one optional remote keypad can be fitted or 2 remote keypads without panel keypad. 2. Four wires (RS485) required for remote keypad.



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