



J.B. Sound Industries Pty. Ltd.

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Manufacture & Consultancy:

Custom Electronics, Printed Circuit Boards,
Broadcast Equipment and Controlled Evacuation Systems

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PFA-3

PFA-3 was designed to provide monitoring of Left, Right and Mono signals (the mono will detect phase errors). This is an update from the original "Program Fail Alarm", with a better layout and trim-pot adjustment of the fault time, fast recovery and front panel test button, this is all mounted on our standard 40mm wide EuroCard metal work.

All of the original muting facilities have been kept to allow "**IN STUDIO**" operation, these include System mute (to ground), Mic mute (to ground) and a momentary push button to mute the audible alarm while the visual alarm remains until the fault is fixed, when the fault is fixed this automatically releases the electronic latch on the momentary audio mute button.

The main alarm output can be an external sonalert or similar alarm unit or/and a relay for other equipment requirements, both the positive and negative of the main output are switched so that the 12V output is connected between two pins of the 416 connector. On the front panel is a green LED (program present), a red LED (program failed for preset time) and a black test button (to simulate program fail), this is repeated 3 times for the left, right and mono signals. The 3 inputs and outputs are separate except for common muting of the audio/main alarm outputs, these three channels can be used to monitor up to 3 individual mono signals. In this case the outputs to the remote LEDs would be used to drive the individual alarm functions of each output.

Special Properties

Our PFA-3 has a special input for each of the three individual channels to allow disabling of that channel, this function allows monitoring of a potential backup channel that does not carry program all the time, without saying that this program has failed.

This disabling feature may be controlled from another, active PFA-3, allowing cascaded control's for multiple backup program sources.



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PFA-3

Typical Specifications

Measured on S/N 1 5 99 on May 17, 1999.

Normal operating level: +8dbm input this can be adjusted to your Stations requirements.

Frequency response referenced to 1K @ +8 input (set up as described in setup using tone), the drop out point was noted and after resetting, the input was lowered to 1db above this point at 1kHz, the frequency was slowly raised until the unit went into alarm (the upper 1db point), the unit was reset and the lower 1db point was found.

Upper 1db limit:34kHz.

Lower 1db limit:8Hz.

Typical Hysteresis: (dependent upon the Schmitt trigger characteristics) >5db Normally between 5db & 8db.

Variable delay between Green LED extinguishing and Red LED (alarm) illuminating:
Normal 10 Seconds to 4 Minutes can be adjusted to your Stations requirements.

Typical Uses:

Monitoring of Air Program,

Monitoring of Auxiliary feeds,

Monitoring of News Feeds,

Auto Starting of recorders for intermittent News Feeds,

(These units can be used as a detector of program as well as a fail of program)

Monitor and control switching of backup programs at Transmitter or unmanned Studio site,
and many other uses.

Call J.B. Sound Industries Pty. Ltd to discuss your requirements.

(02) 9750-4372, Fax & email available.