

## PRODUCT DATA SHEET

### PYROGEN INTERFACE MODULE AND ACTIVATION BOARD

#### DESCRIPTION

When Pyrogen is installed to AS/NZS 4487 there is a requirement for the activation circuit to be monitored for open and short circuit. The standard also requires positive indication of an extinguishant discharge.

The Pyrogen Interface Module and Activation Board provide the monitoring between the Pyrogen generator and the Extinguishant Control Panel.

Each Pyrogen generator requires an Activation Board. Up to ten (10) Activation Boards may be connected to one (1) Pyrogen Interface Module.

Positive indication of an extinguishant discharge is achieved by mounting a thermal switch to each generator.

#### FEATURE

Activation Boards should be mounted as close to the Pyrogen generator as possible. The Activation Board isolates the fault monitoring voltage from the Pyrogen generator.

The Pyrogen Interface Module is mounted in the Extinguishant Control Panel.

The Pyrogen Interface Module provides:

- Monitoring of the activation signal for open or short circuit from the associated Extinguishant Control Panel
- The activation voltage that initiates the release of the extinguishing aerosol
- Monitoring of an extinguishant discharge via thermal switches mounted on each Pyrogen generator

The activation circuit is derived from the Pyrogen Interface Module and is daisy-chained to each Activation Board in a loop in and loop out arrangement. An end-of-line

resistor terminates the activation circuit. A fault will be raised whenever an Activation Board is removed from the circuit.

When a fire alarm occurs the Pyrogen Interface Module will output a current of up to 20 amperes to all the Activation Boards. The activation current peaks at 20 amperes for 5ms. The activation signal is available for a total of two (2) seconds.

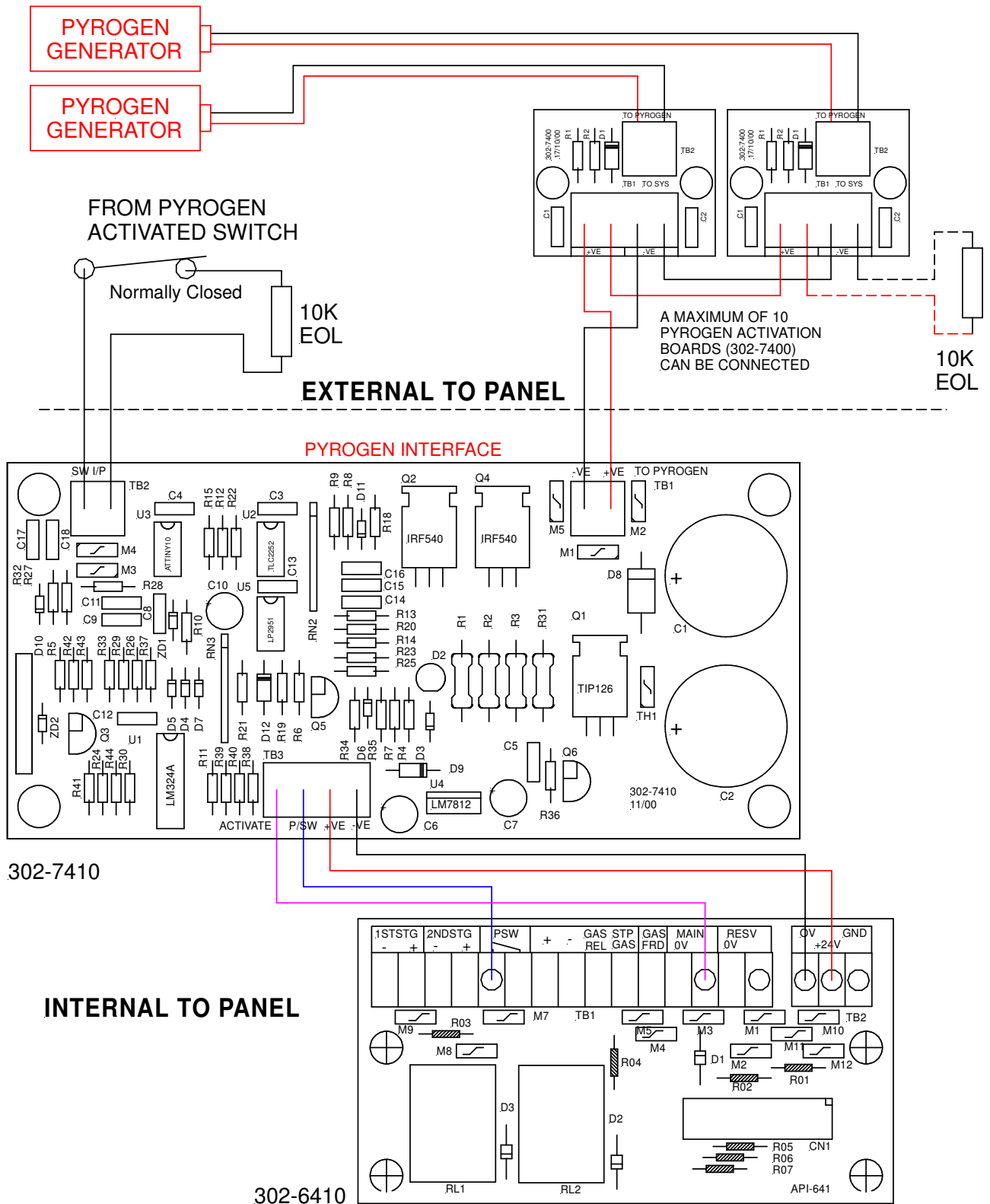
Each Pyrogen generator should be installed with an “extinguishant discharge” monitoring device, such as a thermal switch. The thermal switch is activated when the thermal threshold of 75°C is reached. The thermal switches are wired in series to the Pyrogen Interface Module.

#### SPECIFICATION

<b>Activation Board</b>	
<b>Size (mm)</b>	65 Diameter x 42 H
<b>Power requirement</b>	From Pyrogen Interface Module
<b>Max No of Boards</b>	10 per Pyrogen Interface Module
<b>Wiring</b>	2-wires in and 2-wires out, 2 wires to Pyrogen generator
<b>Product Code</b>	302-7400
<b>Pyrogen Interface Module</b>	
<b>Size (mm)</b>	149 L x 71 W
<b>Power</b>	24 Volts DC
<b>Quiescent Current</b>	11.5Ma
<b>Activation Current</b>	20 Amperes for 5ms
<b>Activation Duration</b>	2 seconds (max.)
<b>End-of-Line Resistor</b>	Activation Circuit – 10k ohms Pyrogen Activated – 10k ohms
<b>Pyrogen Activated</b>	Threshold temperature of 75°C
<b>Product Code</b>	302-7410

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**Typical Interconnection diagram between the Pyrogen Interface Module, Activation Board and Extinguishant Control Panel.**