VIGILANT

T-Gen2

Emergency Warning System - 100V Switching Module

Features

- 4 x 100V Speaker outputs with individual open/short circuit supervision

- Automatic disconnection of shorted outputs

- Each output controllable by T-Gen2 for area paging/zone outputs

- Each output is switchable between two 100V inputs and silence

- Parallel wiring of two modules provides 3-way input selection

- Suitable for T-Gen60 or T-Gen120 amplifiers

- *MX1* Loop Card format

- Demountable screw connectors for all wiring

- Daisy-chain modules together for multiple outputs

- Compliant with AS 4428.16

Specifications

Operating Voltage	19.2V to 28.8Vdc
Quiescent Current	10mA @ 24V
Alarm State Current[1]	43mA @ 24V
100V EOL Resistor	56k Ohm (1 branch)
	100k Ohm (2 branches)
100V load/output	100W
100V load (all 4 outputs)	120W
Ambient Temperature	−5°C to +45°C
Relative Humidity	10% to 95% (non cond.)
Indoor Applications Only	
Dimensions (HWD)	142 x 104 x 40 mm
Wire Size (maximum)	2.5sq. mm
ActivFire Listed	afp-3315
FPANZ Listed	VF/426

Part Numbers

FP1117	100V Switching Module

1. All 4 outputs in short circuit fault.

The FP1117 100V Switching Module is ideal for setting up multiple areas of paging within a zone or for providing individual zone outputs on a T-Gen60 or T-Gen120 Emergency Warning System (EWS).

The FP1117 100V Switching Module splits the T-Gen2's 100V speaker output into four 100V speaker circuits, each with its own supervision for an open or short circuit fault. Dual branch wiring of each output is supported – requiring use of a 100k EOL resistor on each branch, rather than a single 56k for a single branch. If a short circuit fault is detected on an output, the 100V Switching Module disconnects that output, allowing the others to continue working.

Each 100V output can be switched by the T-Gen2 to either of two 100V inputs (A, B) or to silence.

The 100V outputs of two 100V Switching Modules can be wired in parallel, providing switching between 3x 100V inputs or silence. This allows the T-Gen2 to control what audio signal goes to each 100V output, for functions like area paging or Alert/Evacuate/Speech for evacuation zones. Each output can support up to 100W of load, with the combination of all 4 outputs up to 120W maximum.

The 100V Switching module is a QBus Slave module to the T-Gen2. Should a fault occur, an indication of the fault condition is reported via the OLED display on the T-Gen2 and on-board LEDs. User protection against electrical shock is provided by mechanical covers and internally facing screw terminals.

The FP1117 100V Switching Module can be mounted in VIGILANT *MX1* or SIMPLEX 4100ESi fire alarm panel, or the 8U/15U T-Gen2 BOWS/EWS cabinets.

The FP1117 100V Switching Module includes all the required hardware to mount the module on a compatible gear plate, and cabling to wire the module to a T-Gen60 or T-Gen120. To mount a 100V Switching Module in the equipment bay of a SIMPLEX 4100ESi fire panel an FP1120 100V module mounting bracket will be required. Installation instructions (LT0670) detail how two 100V Switching Modules mount on this bracket and how the bracket can be mounted in a SIMPLEX 4100ESi equipment bay.

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