VIGILANT

T-Gen2

Emergency Warning System -Amplifier/Tone Generator

Features

- 60W or 120W D-Class Amplifiers
- Emergency PA microphone input
- 2 Audio line inputs
- 6 General purpose inputs and 4 O/C outputs
- Strobe output
- Programmable site-specific configuration
- Downloadable tones / messages
- Recordable messages
- Additional storage via microSD card
- Designed to comply with AS 4428.16

T-Gen2

The VIGILANT T-Gen2 is an Emergency Warning System (EWS) with a supervised 100V speaker line and digitised speech messages. The T-Gen2 is typically installed in a fire alarm panel; it is readily mounted in the VIGILANT *MX1* and SIMPLEX 4100ESi panels, or in stand-alone Grade 3 Building Occupant Warning Systems or Grade 2 Emergency Warning Systems.

60W and 120W RMS Amplifier Models

Two amplifier modules are available, with additional units able to be slaved with a master unit.
FP1115
T-Gen60 is able to drive a 100V line speaker output with up to 60W of load. It supports two non-emergency audio inputs (background music, paging), a microphone audio input (speech or paging), 6 supervised inputs (Alarm, Fault, Paging), 4 open-collector outputs, normally-energised Fault relay, and a supervised single polarity 2A strobe output.
FP1116
T-Gen120 is able to drive a 100V speaker load up to 120W and supports the same features as the T-Gen60.

Tone Generator

The T-Gen2 amplifier module generates emergency warning signals for alarm and occupant warning systems where a full EWCIE to AS 1670.4 is not required. Different tones can be selected including AS 4428.16, AS 2220 Alert and Evacuate signals and the ISO 8201 Temporal pattern Evacuate Signal. T-Gen2 provides speaker line fault supervision, public address facilities and pre-recorded voice messages.

Operation and Configuration

Operation of the T-Gen2 is controlled by the programmable configuration held within it. This configuration can be selected from a number of pre-defined setups or specifically modified using a PC software - SmartConfig. This provides flexibility to customise the programming configurations and interface to other optional modules.

Optional Modules

The T-Gen2 can be coupled with these optional modules.

4-Way 100V Switching Module FP1117

This splits the T-Gen2's 100V speaker output into four 100V speaker circuits, each with its own supervision. Each output can also be disconnected from the 100V feed, allowing the T-Gen2 to control which outputs receive the audio signal, e.g., for area paging. Ideal for customising public address areas.

4-Way 100V Splitter Module FP1118

This optional module is ideal for splitting one T-Gen2 output into multiple floors or between common areas and apartments so that each output has short-circuit isolation. No control of the outputs is otherwise possible. A fault condition is signalled to the T-Gen2 via the 100V line.

3U Grade 3 User Interface Door FP1121/22/23

A 3U door with single zone Grade 3 User Interface, microphone and looms.

3U EWS User Interface Door FP1124/25

A 3U 19inch rack mount door with Grade 2 User Interface controls for 4 zones, microphone and looms.

3U Grade 2 16-Zone Extender FP1126/27

A 3U 19inch rack mount door with 16 zones of Grade 2 User Interface - fitted with 8-Zones only. Connects to FP1124/25.

8-Zone Expansion Board FP1128

For use with the FP1126/27 16-Zone Extender door, increasing the display capacity from 12 to 20 zones.

FP1143

T-Gen2 High Level Interface (HLI) module allows T-Gen2 to communicate with VIGILANT *MX1*, MX4428, F3200 over RZDU or SIMPLEX 4100ESi over 4100Comms to receive zone alarm information and transmit faults.

8U BOWS Grade 3 FP1144

A compact Grade 3 Building Occupant Warning System (BOWS) in a cabinet which matches the 8U/15U *MX1* or compact 4100ESi panels. Includes a T-Gen60, 14A PSU, Grade 3 User Interface and microphone. There is space for another T-Gen60, up to 3x100V Splitter/Switching modules and 2x 17Ah batteries.

15U BOWS Grade 3 FP1134

Designed for larger buildings, the 15U Grade 3 BOWS is complete with a T-Gen120, 14A PSU, Grade 3 User Interface and microphone, mounted in a 15U rack cabinet. Space for 2x 40Ah batteries, additional T-Gen120, and up to 8 x 100V Switching or 100V Splitter modules.

15U EWS Grade 2 FP1129

Supplied as a 4-zone Grade 2 EWS in a 15U cabinet with T-Gen120, 14A PSU, 1x 100V Splitter Module and 4-zone User Interface.
Expandable to 20-zones with 16-zone Extender, 8-zone Expansion Board, additional T-Gen2, Switching Modules, etc. Space for 2x 40Ah batteries.

Specifications

	FP1115	FP1116
Weight	0.65kg	1.5kg
Dimensions (mm)	125x195x55	125x195x110
Supply Voltage	19.2Vmin to 28.8Vmax	
Operating Temperature	-5°C to +45°C	
Relative Humidity	0 to 95% non-condensing	
Storage Temperature	-20°C to +70°C	
Quiescent Current	45mA[1] to 170mA[2]	
Op. Current 27Vdc[5]	3.0A @ 60W	6.0A @ 120W
Line Voltage		
- AC (Tones)	100VAC rms (tones)	
- DC (Supervision)	2.5Vdc (56k ELD 5.0V (O/C)	
Line Power Tones/Audio	60W	120W
Maximum Line Capacitance	200nF	
Audio Frequency Range		
+/- 1dB	260Hz – 3800Hz	
+/- 3dB	215Hz – 8400Hz	
Audio Performance		
SNR	>75dB(A)	
THD	<0.25%	
100V Speaker Line Supervision		
ELD - 1 Branch	56k 0.4W	
- 2 Branches	100k 0.4W	
Strobe Output		
ELD 1 to 3 branches	1x10k to 3x27k 0.4W	
Current Rating	Max 2.0A	
Audio Inputs		
Audio 1 & Audio 2	250mV rms (min) into 5k Ohm[3]	
Microphone Input Level	3mV rms to 100mV rms[4]	
Digital Inputs		
Input Supervision	2k7 EOL, <3.5V Active	
Open Collector Outputs		
Output Voltage	<1V @ 100mA max., 30Vdc	
Fault Relay	Change-over, 2A @ 30Vdc	
Interfaces		
OLED, 4 button menu structured		
QBus Slave comms	Master/Slave, User I/F, PSE 100V Switching Module	
On-board Storage	4MB (config. & audio)	
MicroSD Card	32GB max. FAT32 support	
Headphone Output (internal)		
- Load impedance	8 Ohm (min) 6mW	
- Output Level	1.30V rms	
ActivFire Listed	afp-3315	
FPANZ Listed	VF/424	VF/425

Notes.
1. Power Save Mode (audio off)
2. Audio idle
3. Isolated, for full power
4. PTT driven, optionally supervised
5. Excludes strobe current

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