T-Gen2

Emergency Warning Systems - Grade 2

Features

- Complete Grade 2 EWS - T-Gen2, User Interface, PSU
- 4-Zone, expandable to 20-zones
- Compliant to AS 4428.16 Grade 2
- 120W amplifier, expandable for higher power requirements
- 19in Rack cabinet format - 15U
- Built-in 14A PSU
- Emergency PA microphone
- 2 Audio line inputs
- 6 General purpose inputs and 4 O/C outputs
- Strobe output
- Programmable site-specific configuration
- Downloadable tones / messages
- Additional storage via microSD card
- Wide range of system configurations supported

The VIGILANT T-Gen2 EWS is a self-contained Grade 2 Emergency Warning System (EWS).

The standard FP1129 configuration is 15U with 120W audio output, integrated 14A PSU, PA microphone, 4-zone Grade 2 User Interface and one 100V Switching Module providing 4x 100V outputs. Space is available for an additional 60W or 120W T-Gen2, 5x Switch/Splitter Modules and 2x 40Ahr batteries.

An optional High Level Link (HLI) module allows zone alarm and fault information to be transferred directly from VIGILANT *MX1*, MX4428 and F3200 panels using RZDU, or SIMPLEX 4100ESi panels using 4100Comms.

When coupled with a modern fire detection and alarm system, such as the VIGILANT *MX1*, the VIGILANT EWS becomes an integral part of your building's fire detection and life safety infrastructure.

For emergency situations the T-Gen2 EWS supports stand-alone operation with automatic change-over from the alert tone and spoken message, to the evacuate tone and a different message, cascading through the various zones as configured. Operator controlled speech push buttons and an in-built microphone can be used for making emergency public address announcements.

For everyday use the EWS provides two audio inputs (e.g. background music, paging). Area-selectable paging uses a remote paging console with integrated microphone, and optional 100V Switching Module(s) to direct the paging announcement to different areas. Up to 6 control inputs allow external sources such as external paging, LAN connected audio-over-IP announcement, etc. to be controlled.

Operation

The EWS is controlled by the programmable configuration held within the T-Gen2. The factory-programmed configuration supports the default hardware arrangement, and the PC software SmartConfig allows a specific configuration to be prepared to match the installed arrangement (paging, slave T-Gens, etc). The flexibility provided allows virtually any application to be implemented.

Expansion

The base EWS can be expanded using a number of different modules and cabinets. Up to 20 zones of User Interface can be configured by adding an FP1126 16-Zone 3U Expansion door and an FP1128 8-Zone Expansion Module. Additional 100V outputs can be provided by fitting FP1117 4-way 100V Switching Modules. If higher power output or dual audio signal functionality is required then T-Gen2 modules (FP1115 60W, FP1116 120W) configured for slave operation and power supplies can be included. Up to 9 Slave T-Gen2s, 9x 14A power supply units and 10x 100V Switching Modules in total are supported.

Matching 15U expansion cabinets complete with 14A PSU (FP1130) can be used for additional equipment, or a build-to-order system can be factory assembled.

100V Switching module FP1117
For adding additional 100V circuits to an amplifier
Amplifier modules FP1115 60W and FP1116 120W amplifier
For expanding the power capacity
3U User Interface FP1124 / FP1125
Grade 2 4-zone EWS UI 3U Door, grey / black
3U Grade 2 16-Zone Extender FP1126 / FP1127
Grade 2 16-zone EWS Extender, 8-z fitted, grey / black
8-Zone Expansion Module FP1128
Grade 2 8-zone Expansion board for fitting to FP1126 / FP1127
15U EWS Expansion Cabinet FP1130
Incl. Blank door, gear plate, 14A PSU
14A PSU, Gear Plate Mount FP1139
14A PSU gear plate mounting 24V
T-Gen2 HLI Board FP1143
High Level Interface with Mounting Bracket

Specifications

	FP1129 (15U)
Weight	26kg
Size (HWD)	750x550x211
Supply Voltage	19.2V to 28.8V
PSU Capacity	14A Peak
Battery Space	2x 40Ah
Operating Temp.	-5°C to +45°C
Relative Humidity	0 to 95% non-cond.
Storage Temp.	-20°C to +70°C
Quiescent Current[1]	300mA
Op. Current@27Vdc[5]	6.2A @ 120W
Line Voltage AC	100V rms
– DC (Supervision)	2.5V (56k ELD 5.0V (O/C)
Line Power	120W
Maximum line cap.	200nF
Audio Performance	
SNR	>75 db(A)
THD	<0.25%
Freq. range +/- 1dB	260Hz – 3800Hz
Freq. range +/- 3dB	215Hz – 8400Hz
100V Speaker Line Supervision ELD	
- 1 Branch	56k 0.4W
- 2 Branches	100k 0.4W
Strobe Output	
- 1 to 3 branch	1x10k - 3x27k 0.4W
Current rating	Max 2.0A
Audio Inputs 1 & 2	250mVrms (min) into 5kOhm[2]
Mic. Input Level	3mV rms to 100mV rms[3]
Digital Inputs	2k7 EOL, <3.5V Active
Open Collector O/P	<1V @ 100mA, 30Vdc
Fault Relay	Change-over, 2A @ 30Vdc
Interfaces	OLED, 4 button menu
Master/Slave	Up to 9 slaves
On-board Storage files)	4MB (configuration and audio
MicroSD Card	32GB max size FAT32 support
Headphone Output (internal)	
Load impedance	8 Ohm min 6mW
Output Level	1.30V rms
ActivFire Listed	afp-3315

Notes.
1. Audio idle
2. Isolated, for full power
3. PTT driven, monitored
4. Excludes strobe current

VIGILANT