



 **VIGILANT**

# Mass notification emergency warning systems



# EWCIIE

The QE20 and T-Gen2 from Vigilant is the heart of a range of new, sophisticated emergency warning control and indicating equipment (EWCIIE) and emergency warning systems (EWS).

## 100 years of innovation

Drawing on over 100 years of innovation, the QE20 and T-Gen2 product range is powerful and packed with features, yet easily configured to suit almost any installation requirement. We have you covered.

### Grade 1 (QE20)

Usually a completely separate system to the fire panel, with activation of the warning signals controlled by the fire detection alarm system. This system must have individual controls and indication for each zone, so that different warning signals can be generated in each zone. There must also be all-zone controls for the alert, evacuate and speech functions. It has a phased evacuation and must support the alert signal to call wardens. Used in medium to large buildings and multi-building infrastructure, such as commercial buildings, office blocks, hospitals, shopping centres, airports and educational campuses.

### Grade 2 (T-Gen2)

Grade 2 is a multi-zone EWS where the activation and silencing of the warning signals may be controlled by the fire alarm panel. A Grade 2 system may have a phased evacuation and may involve an alert signal and/or emergency speech function. Grade 2 systems may be used in buildings under 25 metres in height.

### Grade 3 (T-Gen2)

A single evacuation zone (all-out) system, where the same warning signal is generated throughout the building. A single-storey building may have a single output from the EWS wired to all speakers. A small multi-storey building may be configured to have separate outputs per floor. These can be provided by adding 100V splitter or switching modules to the T-Gen2 output, or using primary T-Gen2 units connected to the primary T-Gen2. Usually installed in, controlled and powered by the fire alarm system.

### Grade 1

- Airport
- Residential care
- Services
- Apartment buildings
- Youth hostels
- Detention facilities
- Entertainment complexes
- High rises
- Hospitals
- Hotels
- Shopping centres
- Office buildings
- Universities

### Grade 2

- Apartment buildings
- Youth hostels
- Carparks
- Detention facilities
- Hotels
- Office buildings
- Warehouses

### Grade 3

- Residential care
- Apartment buildings
- Youth hostels
- Carparks
- Detention facilities
- Hotels
- Schools
- Residential
- Accommodation
- Shopping centres
- Office buildings
- Warehouses

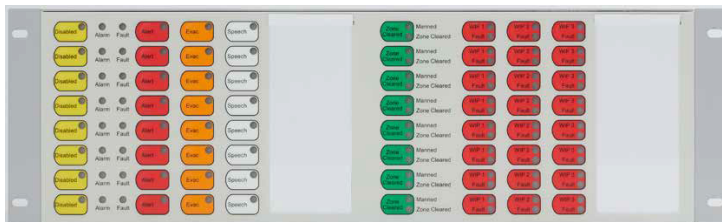
# QE20 EWICIE

The Vigilant QE20 emergency warnings, intercom control and indicating equipment (EWICIE) is the latest addition to our class-leading range of emergency warning systems, designed to facilitate the orderly evacuation of a building in the event of an emergency.

The QE20 Grade 1 has a wide range of functions and optional modules to provide a cost-effective evacuation system solution.

- Up to 224 front panel evacuation zones
- Independent alert and evacuation warning tones and emergency public address
- Clear, intuitive operation
- Modular, easy-to-wire system
- Greater cabinet density
- Four amplifier sizes: D-Class 25W, 60W, 120W and 240W
- High-level input options from compatible fire alarm panels
- IP Networked systems for site-wide interconnection
- On-board service diagnostics
- Greater audio message flexibility and storage
- Ability to perform complex cascading and customisable voice messaging
- New Zealand accent option for voice messages
- Silence/Evacuation/Alert bulging key switch options
- ActivFire listed to AS 428.16 2020 and AS 4428.4 2016
- NZS 4512 2021 approved (listing number VF/446)

The QE20 EWICIE can be used for many types of mass notification from fire alarm warning to discrete intruder messages. The QE20 can be combined with an emergency intercom control and indicating equipment (EICIE) compliant to AS 4428.4, to provide intercommunications between building zones to aid fire wardens or emergency workers in coordinating evacuation procedures.



# T-Gen2

The T-Gen2 Grade 2/3 tone generator/amplifier system provides a 100V audio output suitable for wiring to multiple 100V loudspeakers located in the evacuation zone of the building. There are two models available – T-Gen, 60 which provides a 60W RMS output, and T-Gen, 120 which provides 120W RMS.

The T-Gen2 Grade2/3 system can be incorporated as part of the fire panel CIE or as an independent EWS. Up to nine T-Gen2 units can be configured for secondary operation and connected to a primary T-Gen2. The primary will generate up to three audio signals and distribute these to all secondary T-Gen2, instructing each on which audio signal should be selected and amplified to its 100V output.

## 100V splitter/switching modules

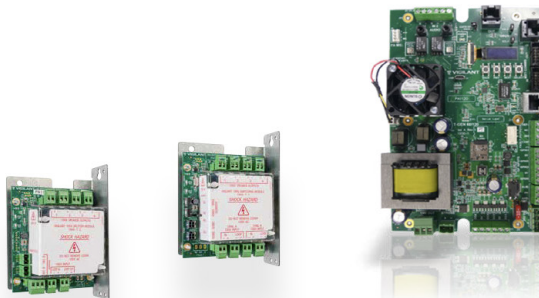
The 100V splitter module is designed for use with Vigilant QE20 and T-Gen2 Grade 2/3 systems. The splitter module splits 1 x 100V speaker output into four 100V speaker circuits, each with its own supervision for open or short circuit faults. Dual branch wiring of each output is supported.

The 100V switching modules are used in a T-Gen2 Grade 2 system to provide multiple areas of paging within a zone, or for providing individual zone outputs. A 100V switching module has two 100V audio inputs, and these can be controlled by the T-Gen2 to connect to four separately supervised short circuit isolated outputs.

Two 100V switching modules can be wired in parallel, so up to three 100V inputs can be switched to four separately supervised short circuit isolated outputs, providing a selection of alert, evacuate, speech or silence for any output.

## Both models include:

- 2 supervised strobe outputs
- 6 supervised digital inputs
- 4 open collector outputs
- 2 line-level audio inputs
- Primary/Secondary operation
- PA mic audio/PTT input





## At a glance

**Grade 1** - Phased evacuation for large, multi-zone or multi-building EWS with evac, alert, speech and cascade functions

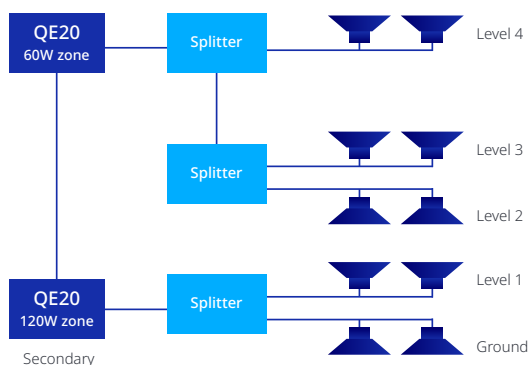
**Grade 2** - Phased evacuation, multi-zone EWS for buildings under 25 metres in height

**Grade 3** - Simple "all-out" EWCIE for single/small multi-level buildings

## Example EWCIE arrangements

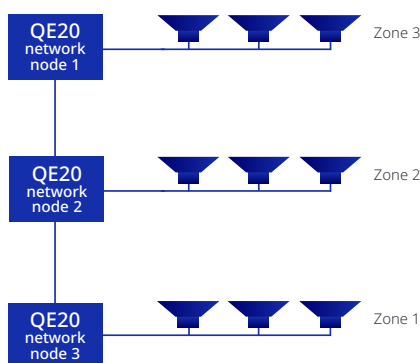
### Grade 1

Multi-level, multi-zone, alert, evac. and speech per zone, phased evac., low power (e.g., 0-30W) per zone, 3 x T-Gen2 provide three audio bursts



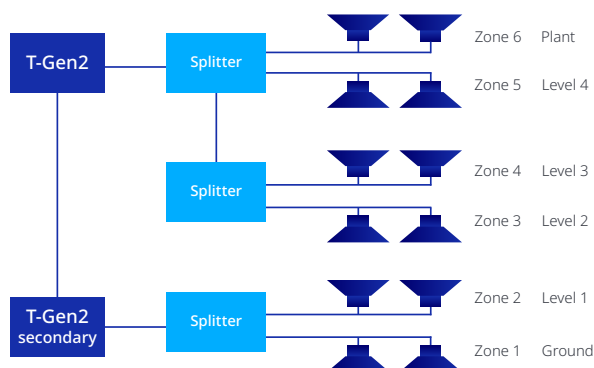
### Grade 1

Multi-level, multi-zone, alert, evac. and speech per zone, phased evac., individual T-Gen2 per zone for large load, up to ten zones



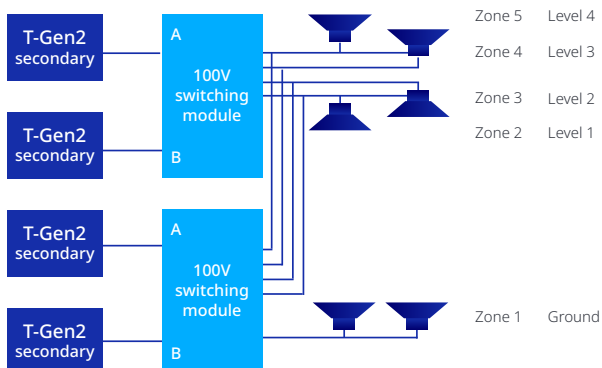
### Grade 2

Multi-level, multi-zone, evac. and speech to selectable zones (up to 20 zones)



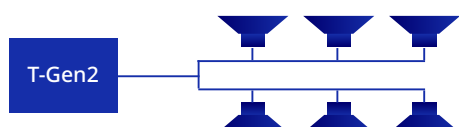
### Grade 2

Multi-level, alert, evac. and speech per zone



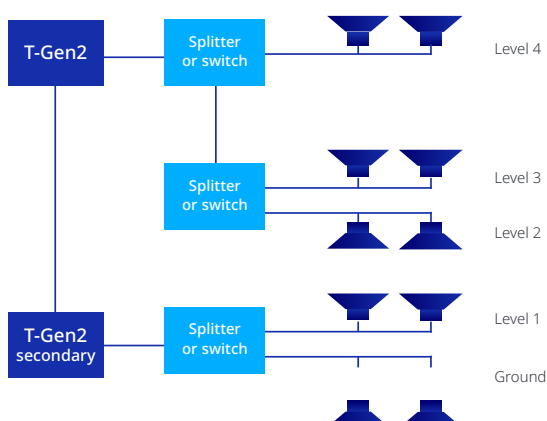
### Grade 3

Single zone



### Grade 3

Multi-level single evacuation zone with up to four paging areas



QE20

T-Gen2

T-Gen2

#### Australia

Tel: 1300 725 688 | Email: [fdp.customerservice.anz@jci.com](mailto:fdp.customerservice.anz@jci.com)

#### New Zealand

Tel: +64 9 635 0617 | Email: [fdp.customerservice.anz@jci.com](mailto:fdp.customerservice.anz@jci.com)

#### About Johnson Controls:

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Building on a proud history of 140 years of innovation, we deliver the blueprint of the future for industries such as healthcare, schools, data centers, airports, stadiums, manufacturing and beyond through OpenBlue, our comprehensive digital offering.

Today, Johnson Controls offers the world's largest portfolio of building technology and software as well as service solutions from some of the most trusted names in the industry.

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