

AVI-Mk2

Audio Visual Indicator Mk2 IP30 or IP65

Features

- Both Indoor and IP65 models available
- Selectable Tones: ISO 8201, AS 2220 or general purpose "RH3"
- Bright, even illumination; good on/off contrast
- External Horn Speaker option
- Optional Synchronisation between units
- Very low current consumption
- Ceiling or Wall mounting
- Designed to Comply with AS 1603.11 and the requirements of AS 14520

Description

The VIGILANT Audio Visual Indicator (AVI) is an internally illuminated warning sign that produces distinct audible and visual indication. It is designed for use with fire alarm or gaseous fire extinguishing systems, or in other applications where clear audio-visual warning is required.

When activated, the internal LEDs (red or yellow) illuminate the faceplate lettering and the internal loudspeaker produces audible warning signals.

The IP65 model comprises an indoor AVI mounted inside a UV-resistant IP65 enclosure with a transparent lid.

A range of high visibility UV-resistant faceplates is available.



Configuration

Illumination of the top and bottom sign sections and selection of the tones to be used is field programmable using internal links. This way, the AVI can readily display either two-stage or alternate warnings.

Up to four lines of text may be accommodated on the faceplate, although use of two or three lines is standard. In addition, the tone volume can be reduced by adjusting a link. For situations with low ambient light, the sign illumination can be reduced.

Expansion options include an LED board kit to convert a red 2-line unit to 3-line and a back-box kit to expand an indoor red 2-line unit to a ceiling mounted double-sided format.

Specifications

Mechanical	Indoor AVI (IP30)	IP65 AVI
Mounting		
Wall	Ø6 mm x 4 holes 280W x 160H mm	383W x 283H mm (brkts incl.)
Ceiling	Ø6 mm x 2 holes 140 mm	
Dimension	316W x 206H x 85D mm	380W x 280H x 132D mm
Weight	2kg less faceplate, 0.25kg faceplate	5kg less faceplate, 0.25kg f/plate
Housing Mat'l	1.2 mm Mild Steel	ABS/Polycarbonate UV-resistant
Housing Finish	Epoxy powdercoat, BFF998CW	Clear lid, light grey base
Faceplate Mat'l	Coloured UV-stable acrylic with 32 mm high (min) lettering	

Electrical

Supply Voltage	19.2 to 28.8 Volts dc
Operating Current	60 mA average (2 lines & "loud" volume) 120 mA average (4 lines & "loud" volume)
Peak Op. Current	Less than 2 x average current
Supervision Current	2µA max. 25°C (5µA max. 50°C) at < 6Vdc

Audio (peak level on AS 2220 Evacuate tone)

Sound Level	90 dBA nom. "loud" @1m on axis 73 dBA nom. "quiet" @1m on axis	75 dBA nom. "loud" @1m on axis
Ext. EA0020 Speaker	105 dBA nom. "loud", 85 dBA nom. "quiet" @1m on axis	

Visual

Luminance	300 cd/m ² nominal "full", 100 cd/m ² nom. "dim" (resistor snipped)
Flash Rate	1Hz nominal, synchronised to tone cadence

Environmental

Operating Temp.	0 °C to +50 °C
Storage Temp.	0 °C to +70 °C
Relative Humidity	Up to 95% (non-condensing)

Part Numbers

Indoor AVI (no faceplates)

FP0853	AVI MK2 2-LINE RED 24V
FP0854	AVI MK2 3-LINE YELLOW 24V
KT0292	AVI Mk2 Expansion Red LED Board plus Hardware Kit - adds extra red LED board to convert a 2-line red AVI to 3-line
KT0293	AVI Mk2 Red Indoor Double Sided Expansion Kit - adds 2nd cover & base, 2 red LED boards to expand FP0853 to a ceiling mounted, double-sided, 2-line red sign

IP65 AVI (no faceplates)

FP1037	IP65 AVI MK2 2-LINE RED 24V
FP1038	IP65 AVI MK2 3-LINE YELLOW 24V
EA0020	IP65 8ohm 10W Horn Speaker

Faceplate Options - All faceplate text is in block capitals

Red Text on Black Background:

FA2700	Fire Alarm, Evacuate Area, 2-line Red UV-stable
FA2701	Fire Alarm, Do Not Enter, 2-line Red UV-stable
FA2702	Do Not Enter, CO2 Gas Discharged, 3-line Red UV-stable
FA2703	Do Not Enter, FM-200 Gas Discharged, 3-line Red UV-stable
FA2704	Do Not Enter, INERGEN Gas Discharged, 3-line Red UV-stable
FA2710	Warning, Fire Door Closing, 3-line Red UV-stable

Yellow Text on Black Background:

FA2776	Extinguishing System Inoperative, 3-line Yellow UV-stable
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(Other faceplate legends available to special order)

Installation

Installation is quick and easy. Attach the AVI backplate to a wall or ceiling in the desired position and wire to the controlling device (fire alarm system).

The circuit may use polarity reversal supervision or load supervision and may be two-wire or three-wire (to switch two-stage or alternate warning). Common positive or common negative circuit configurations can be used.

The AVI automatically identifies the wiring configuration and interprets the signals accordingly. Common negative wiring enables multiple AVIs to be controlled and supervised from ancillary outputs of fire indicator panels such as the VIGILANT F3200.

The number of AVIs that may be connected on a supervised two-wire circuit is limited by the current that the fire alarm system output can source. After mounting and wiring, the required faceplate is fitted to the cover and the cover is simply snapped into place over the backplate.

A double-sided indoor red AVI kit adds a second box and LEDs, mounted back-to-back with the master unit, so that illuminated 2-line text is visible from both sides (2 faceplates are required).

The IP65 models comprise an indoor AVI mounted inside a UV-resistant plastic IP65 enclosure with a transparent lid. While rated for outdoor use, exposure to direct sunlight will lead to overheating. An external IP65 speaker may be required to ensure audibility.

Synchronisation

Synchronisation is sometimes necessary to achieve alarm signal clarity where multiple AVI units are operated in common or adjacent areas. The synchronisation feature allows all AVI units on the same cable to flash together and produce synchronised Alert and Evacuate tones.

This is activated by interconnecting the "Sync" terminals (an additional wire is required between units).

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AVI-Mk2datVIG1711 November 2017

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