

## VEGA REPEATERS

Analogue Addressable Control Panels



Designed to comply with EN54 parts 2 and 4, the Kidde Fire Protection Vega analogue addressable control panel range represents the ultimate in detection and alarm technology. Vega's microprocessor-based modular concept enables systems to be tailored to the exact requirements of a wide range of system configurations.

Offering flexibility in design and operation, Vega is ideal for installations protecting hotels, office complexes, manufacturing sites, hospitals, schools, residential or commercial complexes. In fact, any area where quality of performance and reliability are paramount.

To complement the Vega control panels, a versatile range of repeaters is available which will allow remote indication and operation of the fire detection and alarm system.

Two types of Vega repeater are available:

- Passive (Type 1) – LCD only
- Active (Type 2) – LCD, controls and status/zonal LEDs

**The Passive Repeater (Type 1)** incorporates an 8 line x 40 character graphical backlit LCD display, identical to the main Vega panel. There are no operational controls apart from silence buzzer and LED test, therefore no system actions can be instigated from the Type 1 repeater. A maximum of 49 passive repeaters can be installed on a system, each with a common address.

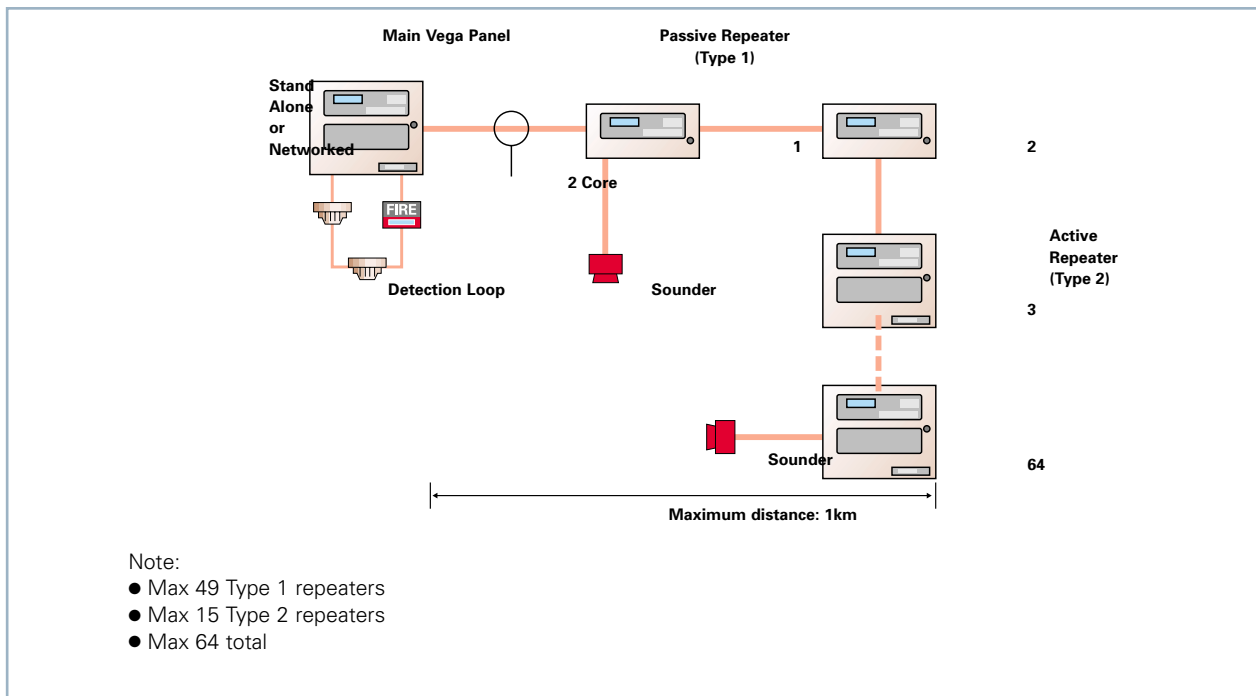
**The Active Repeater (Type 2)** incorporates an 8 line x 40 character graphical backlit LCD display together with fire and fault indications for each zone, status indicators plus 64 optional plant indications. The standard 24 zone repeater is expandable in blocks of 32 indications to provide the options of 56, 88 and 120 zones. The same controls as the main Vega panel are also included to allow remote operation of the system. A total of 15 active repeaters can be installed on a system, each with its own unique address.

Each repeater incorporates a power supply unit and has an internal buzzer, an alarm sounder output and 1 set of volt free changeover relay contacts for Fire and Fault conditions. The sounder and VFCO relay are fully programmable. In total, a maximum of 64 repeaters per main control panel can be connected to a main Vega panel.

A two core cable, the total length of which can be up to 1 km, is used to connect the chain of repeaters.



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The 14 status indicators on the Type 2 Active Repeater are as follows:

- Alarm
- Pre alarm
- Common fault
- System fault
- Device fault
- Earth fault
- PSU fault
- Sounder fault
- Common isolate
- Device isolate
- Output isolate
- Output delayed
- Test
- Power on

The Type 2 Active Repeater incorporates the following controls:

- Silence buzzer
- Reset
- Scroll
- Delay override
- Silence alarms

- Evacuate
- Numeric keys 0 - 9
- Up - Down - Left - Right keys

Repeater Specific Programming options:

- Local printer on/off
- Silence alarms to initiate investigation time delay
- Backlight on/off
- Buzzer silence local or remote
- Entry to access level 2

### Ordering information

LCD only Repeater (Type 1)/with printer	VR3000/VR3000P
24 zone Repeater (Type 2)/with printer	VR3024/VR3024P
56 zone Repeater (Type 2)/with printer	VR3056/VR3056P
88 zone Repeater (Type 2)/with printer	VR3088/VR3088P
120 zone Repeater (Type 2)/with printer	VR3120/VR3120P

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Dimensions	Type 1: 280mm high x 500mm wide x 140mm deep Type 2: 400mm high x 500mm wide x 140mm deep (24 zone version)
Enclosure finish	Semi gloss ash grey BS4800 00AO1 (other colours optional)
Weight	Type 1: 7.6kg (Unpackaged) 10kg (Packaged) Type 2: 9.86kg (Unpackaged) 11.84Kg (Packaged)
Cable entry	20mm pre-formed knockouts top and bottom
Power Supply	2.5 Amp PSU, 110v – 270v AC mains input voltage sensing Battery charging: Flat: 27.7v @2.5 Amps $\pm$ 0.4vDC Load Shed: 20.4 – 21.4v DC $\pm$ 0.4v DC
Fuse	3.5 Amp 20mm ceramic type
Battery capacity	Type 1: Space for 3.2AH Sealed Lead Acid batteries Type 2: Space for 2 x 12 volt 6AH Sealed Lead Acid batteries
Current values	Type 1: Quiescent 90mA, Alarm 120mA Type 2: Quiescent 120mA, Alarm 170mA
<b>Inputs</b>	
Repeater Input	4 way terminal – Input +/- and output +/- RS465 signal
Power Supply	Live, Neutral and Earth
Additional Input	Software defined input requiring switched 0 volt input. For internal use only Input 1-Access Level 2 override
<b>Outputs</b>	
Monitored Output	1 off monitored reverse polarity sounder circuit rated at 1 Amp @ 17 to 28.5 v DC
Relay Output	1 off volt-free changeover relay contacts rated at 1 Amp (resistive) @ 30v DC max 1 off fault volt-free changeover relay contact rated at 1 Amp (resistive) @ 30v DC max. Energised on power up. De-energised for any fault condition.
Internal Buzzer	60dB output
<b>Connection cables</b>	
Repeater Panel	Belden 9729 or equivalent (2 core) 1 km maximum distance (Main Panel to last Repeater in line)
Sounder Circuits	MICC or equivalent (2 core) 1 km max for 1.5mm cross sectional area (depends on sounder load)
<b>Environmental</b>	
Temperature	Operating: 0 to +40° C Storage: 0 to +40° C
Humidity	93% Non condensing
IP Rating	IP31
<b>Design standards</b>	
Vega Design Standard	Designed under Quality Standard BS EN ISO9001 to meet requirements of EN54 parts 2 and 4. European Directive on Electromagnetic Compatibility (89/336/EEC)

### Kidde Fire Protection

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