



VOICE ALARM VIGIL ECLIPSE2

VIGIL *Eclipse2*



VIGIL ECLIPSE2 is a wall-mountable, voice evacuation/public address system. The unit houses one BVRD2M DSP-controlled router, power supply and your choice of amplifiers. Fully networkable, ECLIPSE2 provides the solution for many applications.

FEATURES:

- Stand-alone system, complete with battery backup, in one housing.
- Up to two amplifiers can be fitted as follows:
 - 2 x BVO50Q enables:
 - 3 zone dual + 1 zone single with reserve.
 - 4 zone dual, no reserve.
 - 5 zone single + 1 zone dual with reserve.
 - 6 zone single, with reserve.
 - 6 zone single + 1 zone dual, no reserve.
 - 7 zone single, no reserve.
 - 2 x BV120D enables:
 - 1 zone dual + 1 zone single, with reserve.
 - 2 zone dual, no reserve.
 - 3 zone single, with reserve.
 - 4 zone single, no reserve.
 - 2 x BV220 enables:
 - 1 zone dual, no reserve.
 - 1 zone single, with reserve.
 - 2 zone single, no reserve.
 - 1 x BV440 enables:
 - 1 zone single, no reserve.
- Up to 126 units can be networked. (Digital networking facilities provided by BVRDNET, factory fit option - please refer to separate leaflet.)
- Ideal for decentralised networking or tenant systems.
- Six flash stored (57 second) messages with independent level, surveillance and timing.
- Parametric EQ on all eight inputs and seven outputs.
- Inputs one and two bypass the processor for 'all call' failsafe access.
- Ambient noise sensing.
- Auto amplifier changeover.
- USB2 port allowing system configuration, message revision via laptop.
- Realtime clock.
- Activity, history and fault logging with time/date stamp.
- Eight amplifier surveillance (seven with auto-changeover).
- Eight surveillance inputs for monitoring 100V loudspeaker lines (using BEL1 modules).
- Up to fifteen, changeable, priority levels available.
- Nine selectable chimes/pre-announcement tones of up to eight seconds in length.
- Message synchronisation, even on a decentralised system.
- DC remote volume control.
- Timer to start messages at required times.
- Seven opto-coupled sounder circuit programmable inputs from the fire detection system.
- One 'evacuate all' failsafe opto coupled input.

TERMINATION BOX:

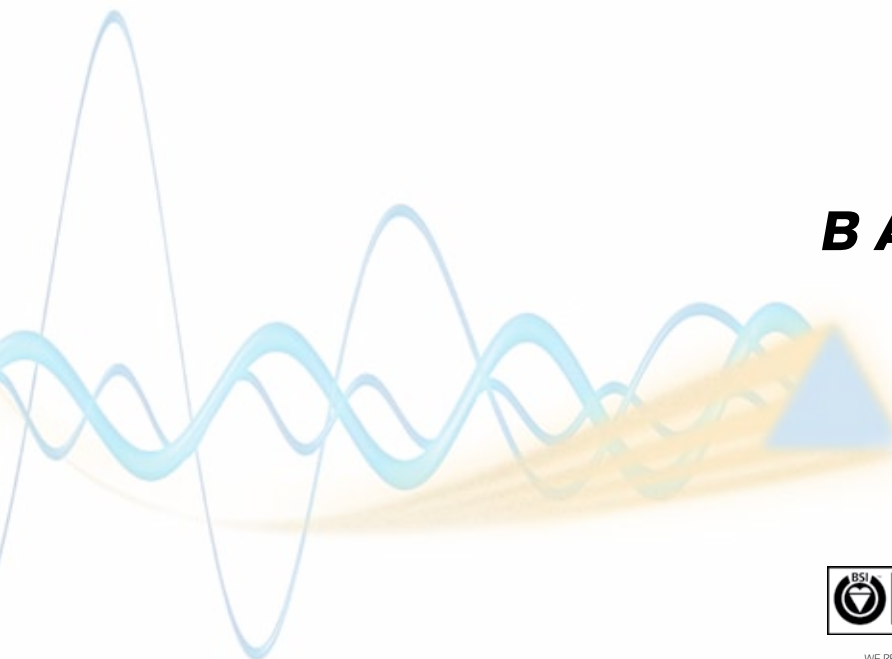
The BVETERM2 is an extension box which fits on top of the ECLIPSE2 case. Providing extra termination space via DIN rail connections for network/audio cards, etc. Useful when ECLIPSE2 is installed in large decentralised systems.

ECLIPSE2 SPECIFICATION:

Audio input and output processing using DSP analogue devices ADSP2116 operating at 100MHz.

AUDIO INPUTS	
Input sensitivity	80mV (-20dB) to 3V (+12dB)
Frequency response	-3 dB @ 30Hz and 20kHz
Signal to noise ratio	Better than 70dB
Phantom power	12V
Three band parametric equalisation	
Frequency	50Hz, 63Hz 80Hz, 100Hz, 125Hz, 160Hz, 200Hz, 250Hz, 315Hz, 400Hz, 500Hz, 630Hz, 800Hz, 1kHz, 1.25kHz, 1.6kHz, 2kHz, 2.5kHz, 3.15kHz, 4kHz, 5kHz, 6.3kHz, 8kHz, 10kHz, 12.5kHz, 16kHz
Bandwidth	0.05oct, 0.1oct, 0.2oct, 0.33oct, 0.5oct, 0.66oct, 1oct & 2oct
Lift and cut	± 12dB in 1dB steps
Low filter	
Frequency	250Hz, 315Hz, 400Hz, 500Hz, 630Hz, 800Hz, 1kHz, 1.2kHz, 1.6kHz, 2kHz, 2.5kHz
Slope	3dB/oct & 6dB/oct
Lift and cut	± 12dB in 1dB steps
High filter	
Frequency	500Hz, 630Hz, 800Hz, 1kHz, 1.25kHz, 1.6kHz, 2kHz, 2.5kHz, 3.15kHz, 4kHz, 5kHz
Lift and cut	± 12dB in 1dB steps
High pass filter	
Frequency	100Hz, 150Hz, 200Hz, 250Hz, 300Hz
Slope	18dB/oct, 12dB/oct, 6dB/oct
Compressor	
Ratio	1.4:1, 2:1, 4:1, 8:1 & limiter
Attack	0-99mS
Release	0-999mS
Messages flash PROM	
Storage medium flash PROM (non-volatile) 57 seconds	
Frequency response	-3dB @ 50Hz & 18kHz
Signal to noise ratio	Better than 65dB

AUDIO OUTPUTS	
Nominal output level	0.775V (0dB)
Max output level	1.5V (+6dBm) @ 400 ohms source = 400 ohms
Frequency response	-3dB @ 30Hz & 20kHz
Output to noise ratio	Better than -85dB
Ten band parametric equalisation	
Frequency	50Hz, 63Hz 80Hz, 100Hz, 125Hz, 160Hz, 200Hz, 250Hz, 315Hz, 400Hz, 500Hz, 630Hz, 800Hz, 1kHz, 1.25kHz, 1.6kHz, 2kHz, 2.5kHz, 3.15kHz, 4kHz, 5kHz, 6.3kHz, 8kHz, 10kHz, 12.5kHz, 16kHz
Bandwidth	0.05oct, 0.1oct, 0.2oct, 0.33oct, 0.5oct, 0.66oct, 1oct & 2oct
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Lift and cut	± 12dB in 1dB steps
High filter	
Frequency	500Hz, 630Hz, 800Hz, 1kHz, 1.25kHz, 1.6kHz, 2kHz, 2.5kHz, 3.15kHz, 4kHz, 5kHz
Lift and cut	± 12dB in 1dB steps
Audio delay	
Selectable from 0 to 1 second	
Front panel	
Monitor speaker to listen to inputs or outputs Common fault indicator, sounder and fault accept button LCD display 40x2 characters, backlit. Rotary encoder to ease configuration, setting levels, entering text, etc.	
Power	230V AC 700 V/A
VIGIL ECLIPSE2 requires a direct non-switchable power supply. Preferably via a class D circuit breaker.	
Dimensions mm W x H x D	ECLIPSE2 - 480 x 830 x 200 BVTERM2 - 480 x 305 x 200



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