

BVTERM2

Operating Instructions

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C O M M U N I C A T I O N S

BVTERM2

Tenants PA-VA interface Technical description

The unit allows connection between a landlords PA-VA system and tenants PA-VA system.

Loudspeaker circuit or circuits if interleaved from the land lord system are connected via fire rated cable to the BVTERM2 into ceramic screw terminal blocks.

The input provides transformer isolation and incorporates a DC blocking capacitor ensuring no undesirable effects on the land lord's system especially the loudspeaker line surveillance.

An audio output level of 0dBm (0.775V) is available to feed into line inputs on a BVCOM or similar on the tenants PA-VA equipment.

If the land lord's system provides a surveillance tone 20KHz this can be detected by the BVCOM and a local fault will be announced at the tenants system.

Access to the tenants system may be achieved using a cable pair from the landlord's system using a fire alarm sounder type circuit wired into the access terminals on the BVTERM2 interface.

The land lord's system monitors this line using an end of line resistor mounted in the last BVTERM2.

This line in its non access state applies 24V in the direction to reverse bias D1 and therefore no current through the relay coil.

Under alarm conditions the line polarity reverses which causes D1 to conduct and the relay now energises.

The relay contact closes and access the BVCOM input via R9 and the audio is routed via amplification to the tenants loudspeakers.

ZD1 provides access surveillance and if the external cable becomes short or open circuit the BVCOM will announce a fault.

For safety always ensure that a good earth connection is made on terminal 10 of P3.

