

## BT10

# Operating Instructions

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**BALDWIN BOXALL**  
COMMUNICATIONS

## **BT10 INSTRUCTIONS**

The BT10 is a universal interface module.

Connect the input of the BT10 to either a 100 Volt loudspeaker line or the line level output from a telephone switch. The output at either microphone or line level can be fed into an amplifier.

When a signal of a sufficient level is received at the input, the Vox circuit will operate and it will be passed via the output into the amplifier. In addition, the unit has a switched 0V available on the ACC terminal to access the amplifier.

E.G. When using one of our amplifiers, take a connecting wire from the ACC terminal to pin 5 on the appropriate input socket.

The Vox circuit is designed to ensure that there will not be any unwanted noise appearing at the amplifier input and being relayed through the loudspeakers.

A pre-set control allows adjustment of the Vox sensitivity. To set it, adjust the control so that it only switches on when a suitable signal level is present. The TEST LED will illuminate when the Vox has operated and the access will be switched ON.

The gain preset adjusts the gain of the unit and is factory pre-set at x 2 ( 6 dB). It can be used to compensate for different input signal levels.

The unit is powered from either mains or 24 VDC. If both are connected, in the event of mains failure there will be automatic switch over to the 24VDC and the unit will continue to operate.

### **SPECIFICATION**

N.B. All figures are for 1 KHz input signal and gain set at X2 (6dB).

#### Vox Sensitivity.

Min	2.5mV (-50dB)
Max	250mV (-10dB)
<u>Max output.</u> (Before clipping)	3.0V (11.5dB)
<u>T.H.D.</u> (At max. output)	<0.02%
<u>Gain</u> Variable	0 - 16dB (X1 - X6) (Factory set to x2 (6dB))
<u>Input for 0dB output.</u> (At max gain)	128mV (-15dB)
<u>100V line input for 0dB output.</u>	50V
DC supply current at	24VDC <20mA

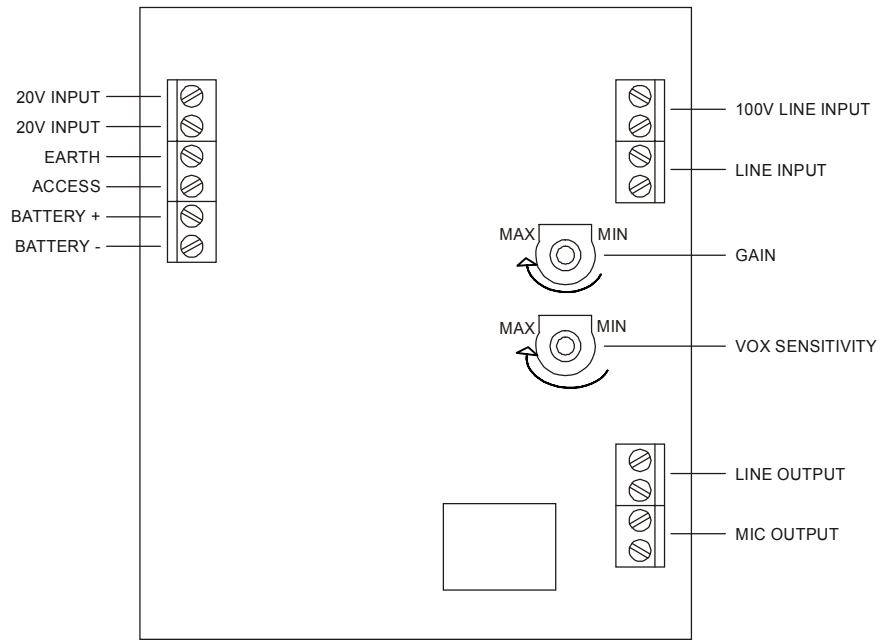


Figure 1 - BT10 PC Board Layout

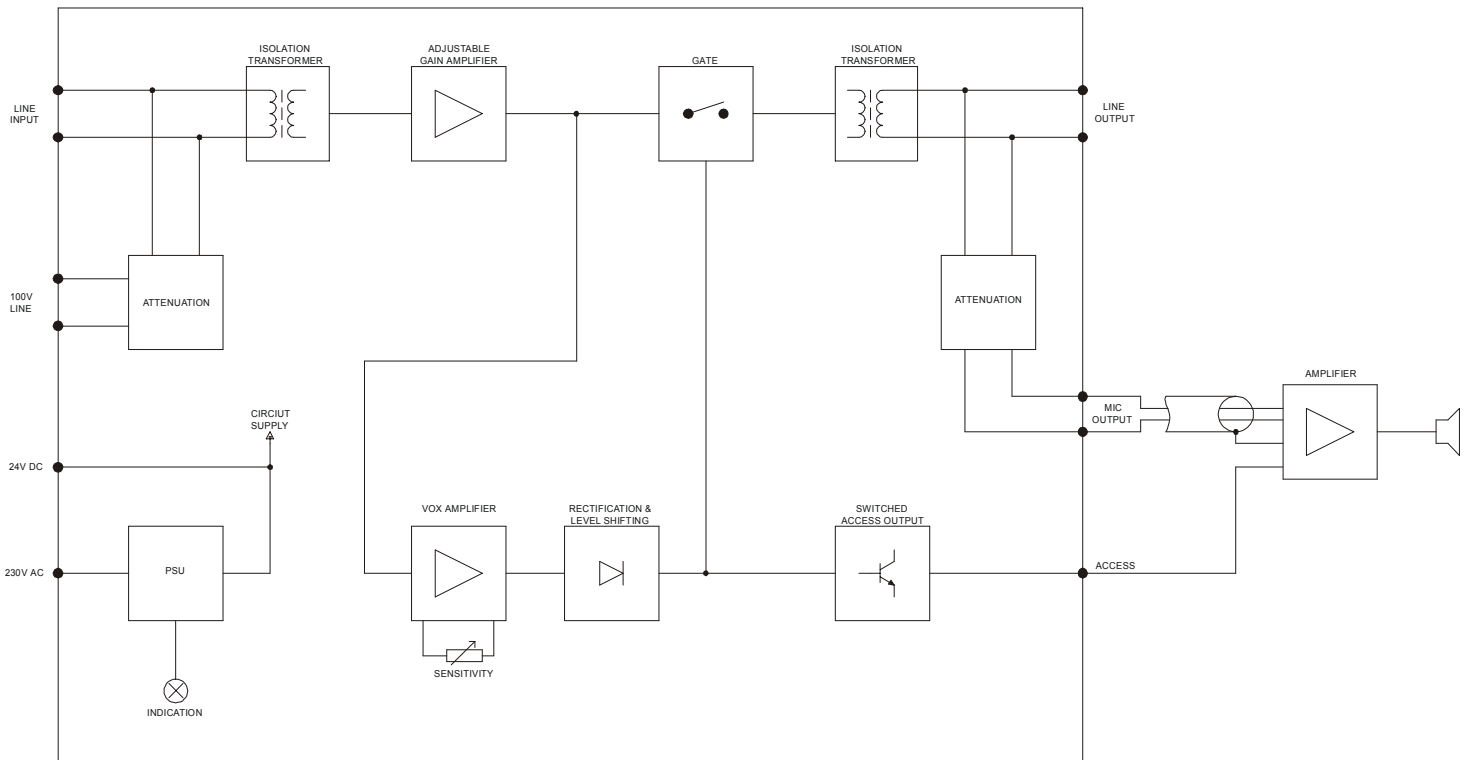


Figure 2 - BT10 Functional Block Diagram