

## Cal + Test Procedure; Vibration Transmitter VBT244

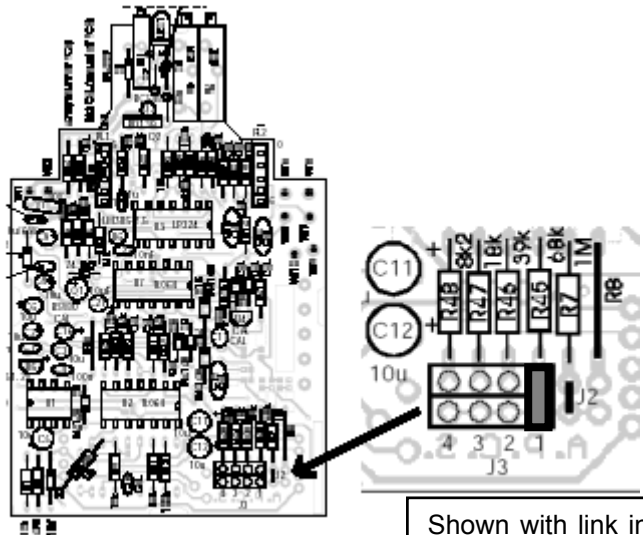
### Set Links On Header J3

Header J3 must be set to the required span range. The unit must first be disconnected, opened to set links on J3.

If using a "PR608A11 Industrial Accelerometer" details of this sensor can be obtained on data sheet "AD608A11". This sensor provides 100mV/g or for example the vibration level was  $\pm 25g$ , then the signal from the sensor would be  $\pm 2.5V$ .

mV peak	J3 setting**			
	1	2	3	4
200	x	x	x	x
400	-	-	-	x
500	x	x	x	-
1000	x	x	-	-
2000	x	-	-	-
5000	-	-	-	-

Note. \*\* "-" = link open, "x" = link closed.



### Calibration Procedure - Accelerometers.

Using the example: Input = 0 to 5000mV peak, output = 4 to 20mA

#### Using A Signal Generator

The input signal level is set up using an ac voltmeter.

It must be scaled according to the relationship:  $V_{generator} = V_{peak} \times 0.707$ .

For example if the input level is 5000mV peak set the function generator to 3535mV RMS.

#### Using Sensor Signal.

The raw sensor signal can be measured with a voltmeter or CRO via terminals 5 and 6. By knowing the signal level from the sensor at a vibration level the unit can be scaled using the front panel span trim-pot.

1. With no input applied adjust the offs trim pot for zero output (e.g. 4.00mA).
2. For full-scale input adjust span trim-pot for maximum out (e.g. 20mA).

**Note.** If you cannot get full scale output for full scale input by adjusting span then the input signal (sine wave) is not corresponding to the J3 setting.

The unit must then be disconnected, opened up and links on jumper J3 reset according to the above table before continuing.

3. Check mid scale for linearity.