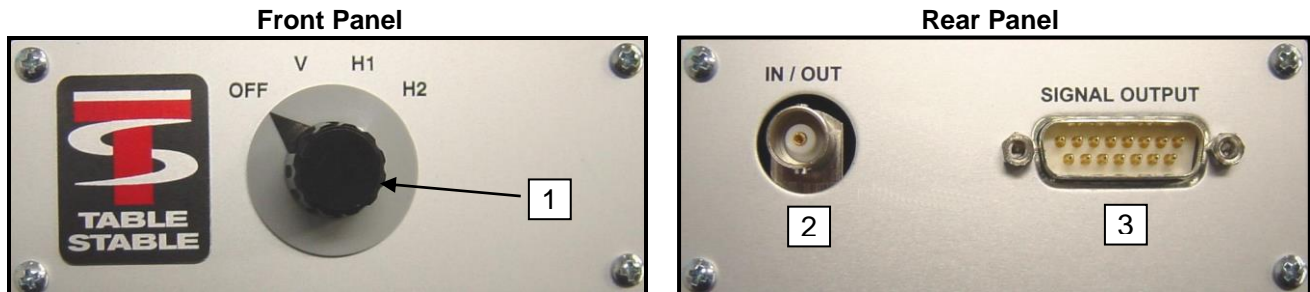


AVI-Modulation Input-Box Operation Instructions

The modulation-box allows an excitation signal to be applied to the AVI-Isolation system so that the system may be used as a shaker in any direction. No separate power supply is required. Different excitation directions can be selected by the Mode Switch.



1 Direction mode select switch

2 Input BNC socket
3 Signal output socket

Operation

The AVI isolation system must first of all be switched on and the isolation enabled on the front panel.

Connect the modulation-box to the upper sockets of the AVI Isolation units using the D-Sub 15 cable provided. (Socket A into unit A and socket B into unit B).

Important: Do not use any other cables in place of the one provided.

For use as a shaker a sine wave will normally be required. This must be supplied via an external signal generator. Connect the signal to the INPUT BNC socket (2).

(max. amplitude 20Vpp)

Note: as the frequency of the excitation is scanned the VELOCITY will remain approximately constant over the range 2-80Hz. Beyond this frequency some resonances are likely to appear, depending on the load. For control purposes an external accelerometer should be used. The sensitivity is approximately 10^{-6} m/sec per volt excitation.

Three excitation directions are selectable using the Direction Mode Select switch (1):

V is vertical, **H1**, **H2** are horizontal excitations in the directions shown in fig.1

Fig.1

