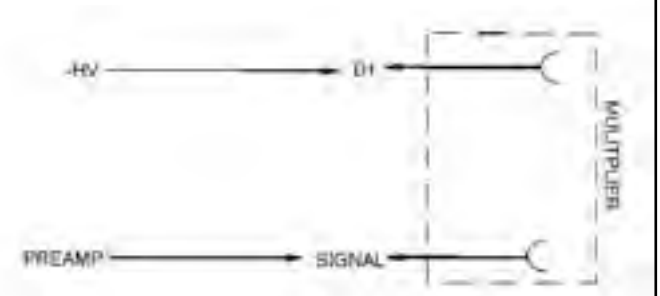
Installing and Operating the 14130 and 14130D2 *ACTIVE FILM Multiplier*™

ACTIVE FILM Multiplier models 14130 and 14130D2 are designed for operation with magnetic sector mass spectrometers manufactured by VG.

The multiplier should be mounted so that all of its metal components (excluding the mounting plate which is normally attached to a grounded surface) are at least 4mm from any external metal surface.

In the case of the 14130 there are 2 electrical connections to the multiplier:
I) -HV, and II) the signal output lead.



Electrical connections for the model 14130

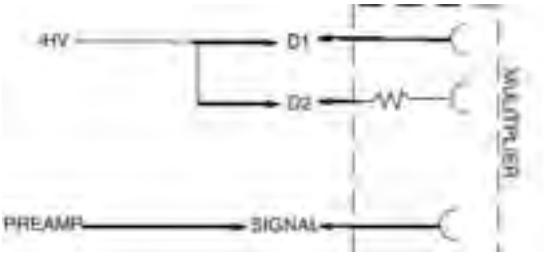
In normal operation, both the D1 and D2 leads are connected to the -HV (the resistor between the first and second dynode is built into the multiplier).

To operate the first dynode as a faraday cup, switch off the multiplier -HV, disconnect the -HV from the D1 lead and connect the D1 lead to an electrometer.

IMPORTANT NOTE: In some instruments, electronics may have a resistor between D1 and D2 leads. This is not used with the 14130D2.

For further clarification and technical support, please contact your nearest SGE office.

In the case of the 14130D2 there are 3 electrical connections to the multiplier:
I) First dynode (D1), II) the second dynode (D2) and III) the signal output lead.



Electrical connections for the model 14130D2

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