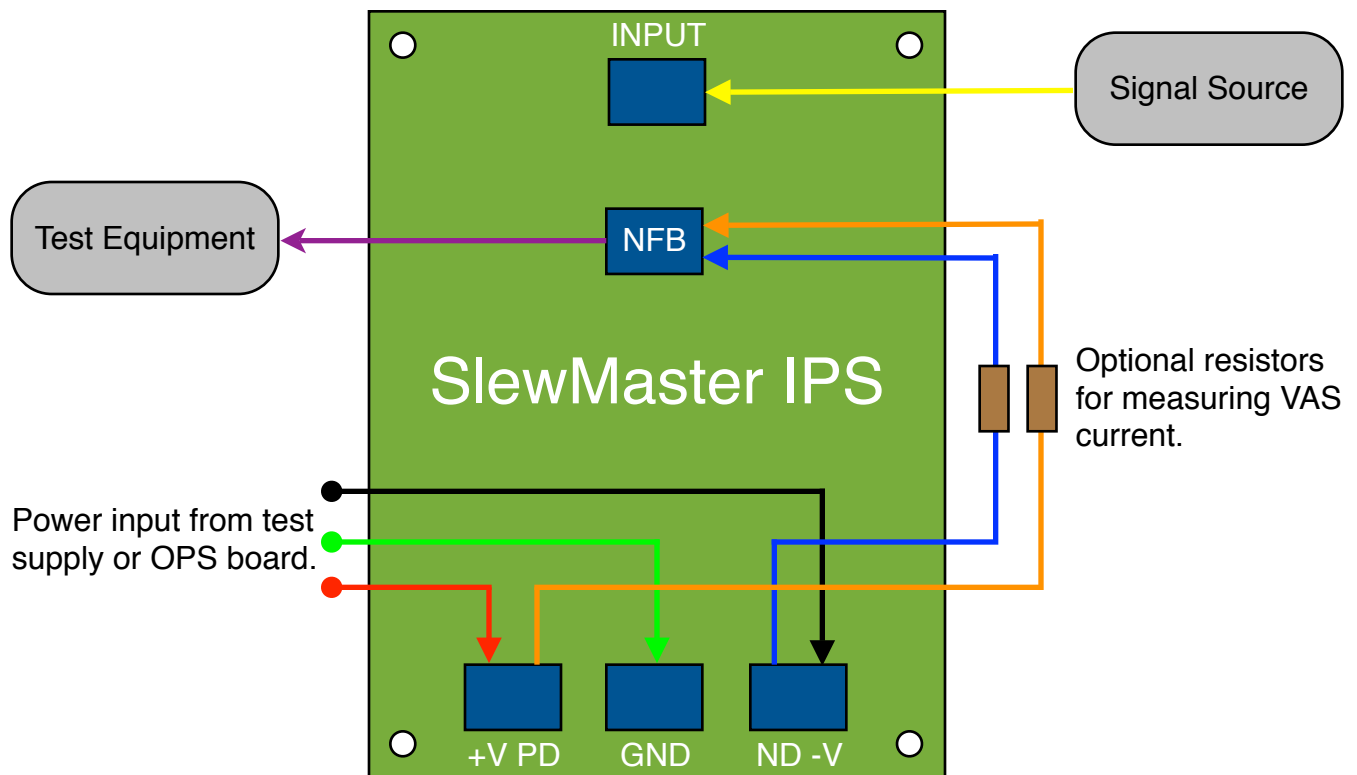


Operating A SlewMaster IPS In Isolation

One of the nice features of a fully modular design is that the approach allows the various modules to be tested for proper operation, in isolation from each other, prior to integrating them into a complete amplifier.

The approach is simple. Fully construct the desired IPS for your SlewMaster project and perform any pre-calibration adjustments if required. Connect both drive signals, PD and ND, from the IPS to the NFB point on the IPS. Resistors may be inserted in series with the drive connections if you want to use a voltmeter to indirectly measure the VAS current flow, 100Ω or 1kΩ resistors would be convenient for calculation.

Connect your signal source to the input and your oscilloscope or other test device at the NFB point. Fine tune any adjustments on the IPS such as adjustable CCSs and offset adjustments prior to connection of an OPS. Further fine tuning may be required in a completed project.



Notes:

The PD and ND connections are inherently current limited and do not require nor actually benefit from using the optional resistors. The resistors should be removed after VAS current is verified and prior to further evaluation.

Output will be curtailed or have excess distortion due to the fact that there is no buffering action that the OPS would provide between the output of the IPS and the NFB point. This is especially true of the CFA IPS designs due to their low impedance feedback networks but needs to be considered for all IPS designs irrespective of topology.