

"AC" Disconnects the DC voltage component and uses only the AC component of the modulation signal.

"DC" Uses the modulation signal with both components, AC and DC.

Remote command:

`[:SOURce<hw>] :AM:EXTernal:COUPling` on page 332

Ext. Impedance

(Source "External" only)

Sets the impedance for the external modulation signal, applied at the [MOD EXT] connector.

You can select 600 Ohm or high (>100 kOhm).

This setting affects all analog modulations which use the external modulation signal.

Remote command:

`[:SOURce<hw>] :INPut:MODext:IMPedance` on page 353

Ignore Overvoltage Warning

Suppresses warnings the instrument generates when the modulation signal input is overloaded.

This function prevents a warning caused by signals, that generally comply with the specification, but temporarily overload the input, for example due to spikes. The warning is suppressed in the history, and in the error queue.

Note: This setting is not affected by an instrument preset ([preset] key), *rst or the Save/Recall function. Only the factory preset resets (enables) this setting.

Remote command:

`[:SOURce<hw>] :INPut:MODext:WIGNore` on page 353

4.4.3 Frequency Modulation (FM)

An internal and/or external source can be selected for frequency modulation. The LF GEN modulation generator is available as the internal source. Two-tone FM is possible by simultaneously switching on the external and internal source.

The [MOD EXT] input connectors for external feed of analog modulation signals are at the front of the instrument. The coupling mode of the input (AC or DC) can be selected.

Selection between three modulation modes is possible:

- "Normal" mode with full setting range for modulation bandwidth and FM deviation.
- "Low Noise" mode with better signal/noise ratio, but reduced setting range for modulation bandwidth
- "High Deviation" mode with full setting range for FM deviation and a reduced setting range for modulation bandwidth (see data sheet).