

- "Unchanged"      Freezes the setting of the attenuator when RF is switched off. The attenuator is only activated when RF is switched on.  
This setting is recommended if a constant VSWR (**Voltage Standing Wave Ratio**) is required.  
Furthermore, on instruments equipped with a mechanical attenuator, it provides fast and wear-free operation.
- "Full Attenuation"      Sets attenuation to maximum when the RF signal is switched off. This setting is recommended for applications that require a high level of noise suppression.

Remote command:

[\[:SOURce<hw>\]:POWER:ATTenuation:RFOFF:MODE](#) on page 384

### User Variation

If the level is set using the rotary knob, the step width is defined in the "User Variation" section.

#### Variation Active

Activates the user-defined step width used when varying the level value with the rotary knob.

- "ON"      The level value set with the rotary knob is varied using the user-defined step width which is entered under "Variation Step".
- "OFF"      The level value set with the rotary knob is varied in steps of one unit at the cursor position (standard operating mode).

Remote command:

[\[:SOURce<hw>\]:POWER:STEP:MODE](#) on page 392

#### Variation Step

Sets the user-defined step width for entering the RF level using the rotary knob. Level variation with this step width must also be activated with "Variation Active".

Remote command:

[\[:SOURce<hw>\]:POWER:STEP\[:INCRement\]](#) on page 391

### External Level Adjustment

The external level adjustment provides information about the data that has been used for calibrating the RF level.

By default the instrument uses correction data obtained in the factory before delivery. In exceptional cases, you can determine the calibration values with an R&S NRP power sensor, and use these values for the external level correction. This feature is a protected function (see Service Manual, chapter 2, "Adjustment").

#### Adjustment Data

Indicates what data has been used for level calibration.

Remote command:

[:CALibration<hw>:LEVel:EXTern:DATA](#) on page 292