

"Manual" In this mode, you can switch the filter individually.

Remote command:

`:OUTPut<hw>:FILTer:AUTO` on page 315

### State

Switches the filter in manual mode.

**Note:** If you work in the "Auto" [Mode](#), this parameter shows the current state of the filter. If you then change the state, the operation mode automatically turns to manual operation.

Remote command:

`:OUTPut<hw>:FILTer[:LPASs]:STATe` on page 316

## Attenuator Settings

The R&S SMB can be configured to provide level settings without interruption. It is possible for instruments with or without step attenuator. The attenuator mode is set in the "Attenuator Settings" section of the "RF level / EMF" dialog.

### Attenuator Mode

Sets the attenuator mode at the RF output.

"Auto" Standard mode.

"Fixed" When this operating mode is switched on, the attenuator, relays and amplifier stages are fixed in their current positions to provide level settings without interruption. The resulting variation range is defined and displayed under "Attenuator Fixed Range".

**Note:** The function is effective when automatic level control is activated ("ALC State = On").

If the normal variation range is overranged or underranged, level errors increase considerably and the warning "Level under/over-range" appears in the info line. The spectral purity of the output signal decreases with high attenuation.

Remote command:

`:OUTPut<hw>:AMODE` on page 315

### Fixed Range (PEP) In

Displays the level range in which the level is set without interruption for the "Attenuator Mode fixed" setting.

Remote command:

`:OUTPut<hw>:AFIXed:RANGe:UPPer?` on page 314

`:OUTPut<hw>:AFIXed:RANGe:LOWer?` on page 314

### RF OFF Mode

Selects the attenuator mode, when the RF signal is switched off.

The setting of the RF OFF mode is not affected by an instrument preset ([PRESET] key), \*RST and the "Save/Recall" function. This parameter is influenced only by the [Factory Preset](#).