

"Use SParameter"

Indicates whether SParameter correction is used.

"Attenuator Mode"

Displays the selected mode of the attenuator.

"Fixed Range (PEP) In:"

Shows the level range.

Remote command:

n.a.

#### 4.3.5.7 Reverse Power Protection

The reverse power protection prevents against overload by an external signal applied to the RF output of the R&S SMB.



The R&S SMB equipped with frequency options up to 6 GHz includes a reverse power protection as standard. For instruments equipped with frequency option R&S SMB-B112 or R&S SMB-B112L a reverse power protection option R&S SMB-B30 is available. Refer to the data sheet for additional information and the respective option.

The reverse power protection is tripped when the power of the external signal becomes too high. A relay opens and interrupts the internal connection to the RF output. This condition is indicated in the display header by the "OVERLOAD" status message.

##### Overload

If an "Overload" status message is indicated in the display header, reset the overload protection by pressing the [RF ON/OFF] key.

The RF input is activated when the overload protection is reset.

Remote command:

`:OUTPut<hw>:PROTection:TRIPped?` on page 316

`:OUTPut<hw>:PROTection:CLEAr` on page 316

`:OUTPut<hw>[:STATe]` on page 317

#### 4.3.6 RF Measurement

##### 4.3.6.1 NRP Sensor Mapping

The "NRP Sensor Mapping" lists all R&S NRP sensors detected by the instrument.

Any R&S NRP sensor that supports the USB legacy protocol and is connected to one of the USB interfaces, is detected automatically and added to the list. Vice versa, the R&S SMB removes a sensor from the list, when it is disconnected.

R&S NRP sensors that are connected via LAN or use the USBTMC protocol are not automatically detected. They are detected by the scan search function.