

3.1.13 Default Settings

When the instrument is switched on, it is not the preset state that is active, but rather the instrument state that was set before the instrument was switched off. It is also recommended that you use the [PRESET] key to return the instrument to its defined preset state every time a new configuration is required or the current setup is not anymore relevant.

The R&S SMB offers a two-stage preset concept:

- Preset the instrument to a predefined state
The [PRESET] key calls up a defined instrument setup. All parameters and switching states are preset (also those of inactive operating modes). The default instrument settings provide a reproducible initial basis for all other settings. However, functions that concern the integration of the instrument into a measurement setup are not changed, e.g. GPIB bus address or reference oscillator source settings.
- Preset the instrument to its factory settings
The instrument can also be forced to load its default factory settings. To access the corresponding dialog box, press the [SETUP] key and select the "Factory Preset". For more information and an overview of the settings affected by the factory preset function, see [Chapter 4.2.3.16, "Factory Preset"](#), on page 122.

Overview of the Most Important Preset States

The following list gives an overview of the presets for the most important generator settings. The other presets can be found in the preset tables of the individual menus and the information accompanying the remote commands.

- "RF frequency" = 1 GHz
- "RF level" RF output switched off
- "Level" = 30 dBm for instruments including an attenuator
"Level" = -5 dBm for instruments with no attenuator
- "Offsets" = 0
- "Modulations State" = Off
- Uninterrupted level settings are switched off
"Level Attenuator Mode" = AUTO
- Internal level control "Level ALC" = AUTO
- User correction "Level Ucor" = OFF
- "LF output State" = Off
- "Sweep State" = Off

Settings that are not affected by the [PRESET] key

- Reference frequency settings ("Ref Oscillator" menu)
- Power on settings ("Level/EMF" menu)
- Network settings ("Setup" menu)
- GPIB address ("Setup" menu)
- *IDN? Identification and emulation ("Setup" menu)
- Password and settings protected by passwords ("Setup" menu)