

## 3.5 Instrument Control

The **operating concept** of the R&S SMB employs the following three ways of instrument control:

- Manual operation
- Remote control
- Remote access

### 3.5.1 Manual Operation

The R&S SMB can be operated intuitively either via the interactive block diagram or via a menu tree. All menus are in the form of windows that can be operated in the same way. Rotary knob, keys and softkeys, or alternatively a mouse, allow direct and therefore convenient access to entries and settings.

The display shows the current signal generator state. The embedded online help functions supports you in signal configuration.

This section describes the concept of manual operation of the signal generator. It includes a description of the general structure of a dialog box, working with dialog boxes and the block diagram and the setting of parameters.

For an in-depth description of the instrument functions and dialog boxes, refer to [Chapter 4, "Instrument Function"](#), on page 94.

#### 3.5.1.1 Legend of Manual Controls

The following table lists all available key combinations used on the PC keyboard to trigger functions on the instrument. Keyboard labels are described in alphabetical order.

In addition, a front panel key emulation and an on-screen keyboard can be used for manual operation by mouse only.

**Table 3-3: Overview of the keyboard key combinations and their function**

Key of PC keyboard	Short description	Function
. / *...#	Special characters	Enters a special character, e.g. period/decimal point.
+/-	Sign	Enters the sign.
- / (shift+) a—z	A<->a	Switches between upper-case and lower-case letters.
ALT + F9	Units G/n / dBuV / dBu	Selects the unit Giga/Nano, dBuV for the RF level and dBu for the LF level.
ALT + F10	Units M/u / uV	Selects the units Mega/Micro and uV for RF levels.
ALT + F11	Units k/m / uV	Selects the units Kilo/Milli and uV for RF levels.