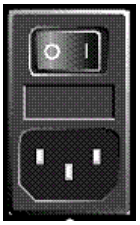
Figure 3-2: Rear panel view

3.2.2.1 Description of the Connectors

[Fuses]
The R&S SMB is fully fused by two fuses IEC60127-T3.15H/250 V.

The fuses are accommodated in the fuse holders next to the power connector. Use only fuses of the mentioned type.



[AC supply and power switch]
When the R&S SMB is connected to the AC supply, it automatically sets itself to the correct range for the applied voltage (range: see type label). There is no need to set the voltage manually or change fuses.

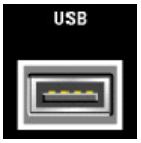
The power switch can be set to two positions:

- **0**
  The instrument is disconnected from the mains.
- **I**
  The instrument is power-supplied. It is either ready for operation (STANDBY) or in operating mode, depending on the position of the [ON/STANDBY] switch on the instrument front.

See also data sheet andChapter 3.1.6, "Connecting to Power", on page 24.

[USB IN]
USB (universal serial bus) interface of type B (device USB).

This interface can be used for remote control of the instrument.



[USB Connectors type A]
USB (universal serial bus) interfaces of type A (host USB).

- Connection of peripherals such as mouse, keyboard, etc.
- Connection of memory stick for file transmission
- Firmware update

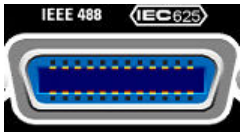
See Chapter 3.1.9, "Connecting USB Devices", on page 25.

[LAN Connector]
Ethernet interface

- For integrating signal generators in a network
- Remote control of signal generator
- Remote access to the signal generator
- Firmware update

See also:

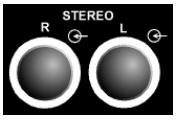
- Chapter 3.1.7, "Connecting to LAN", on page 24
- Chapter 5.1.3, "LAN Interface", on page 242



[IEC 625/IEEE 488]
IEC-bus (IEEE 488) interface for remote control of the instrument.

See also Chapter A.1, "GPIB Bus Interface", on page 508 and Chapter 5.1.6, "GPIB Interface (IEC/IEEE Bus Interface)", on page 246.

Note: In order to avoid electromagnetic interference (EMI) caused by open lines, always terminate any connected IEC-bus cable with an instrument or a controller.



[Stereo R/L]
Inputs for analog stereo modulation signals. External modulation sources or the internal LF generator can be used (stereo modulation is available with option R&S SMB-B5).

See also Chapter 4.4.6, "Stereo Modulation", on page 217.

[S/P DIF]
Input for digital stereo signals (stereo modulation is available with option R&S SMB-B5).

See also Chapter 4.4.6, "Stereo Modulation", on page 217.

[SIGNAL VALID]
Output of valid signal. This signal marks the valid signal times (valid level and frequency indication). The signal is generated automatically.

[INSTR TRIG]
Input for external trigger for sweeps and list mode.

See also Chapter 4.3.7.4, "List Mode", on page 192 and Chapter 4.3.7.1, "Overview", on page 178.

[PULSE VIDEO]
Output of internal pulse generator signal or external pulse signal fed in via the [PULSE EXT] connector (video signal).

See alsoChapter 4.4.5, "Pulse Modulation (PM)", on page 214 .