

The function automatically creates the file name `SensLog<n>.txt` and stores the file in `*txt` format under `/var/user/SensorLogging` on the hard disk. You can enable logging for each connected sensor separately. If enabled, one file per sensor is written.

**Note:** This specific function is intended for measurements with long time intervals, or if there is a risk that the connection to the sensor can be interrupted and you need the data for reconstruction.

The simplified recording function continuously writes the values in the file of the corresponding sensor number, like `Sens1Log.txt`. When you start a new measurement, the existing data will not be overwritten, but added to the file.

If you use this function, it is recommended that you regularly remove the files from the hard disk, since they require storage capacity.

Remote command:

`:SENSe<ch>[:POWER]:LOGGing:STATe` on page 327

## 4.3.7 RF Sweep and List Mode

### 4.3.7.1 Overview

The R&S SMB offers three different sweep types (frequency sweep, level sweep and LF sweep) to be activated alternatively. Each type has 6 modes which differ with respect to the sweep cycle mode (continuous, individual and step-by-step) and triggering mode (automatic, internal and external).



- Sweeps and list mode can not be activated simultaneously, they deactivate each other.
- Activating a sweep mode immediately disables [NRP Level Control](#). Vice versa, a running sweep mode blocks "NRP Level Control". It can not be activated.
- If you want to remain at a specific frequency or level value during a sweep, enter the value directly in the status bar. The sweep stops immediately.

#### Setting a sweep

A sweep is set in five basic steps which are shown below taking a frequency sweep as an example.



The LF sweep is activated and configured in the "Mod Gen" block.

1. Set the sweep range ("Start Freq" and "Stop Freq" or "Center Freq" and "Span").
2. Select linear or logarithmic sweep spacing ("Spacing").
3. Set the step width ("Step Lin/Log") and dwell time ("Dwell Time").
4. Activate the sweep ("Mode" to Auto, Single, Step or Extern Single, Extern Step).