

## Customer Information

This paper treats the update of the R&S®FSUP-Z1 AM Noise Detector gain file that you need for amplitude noise measurements with the R&S®FSUP Signal Source Analyzer (order numbers 1166.3505.09 / .27 / .51).

The paper applies to AM detectors with serial number 102000 or higher in combination with the R&S®FSUP firmware version up to 4.47.

Future firmware versions will already contain the file. Therefore no action will be necessary with future R&S®FSUP firmware versions.

### Updating the R&S®FSUP-Z1 Detector File

Working with the R&S®FSUP-Z1 requires the presence of a gain file on the R&S®FSUP. The file is already part of the R&S®FSUP firmware. However, because the contents of the file were updated recently, you have to install the file manually if you are using an AM Noise Detector with a serial number 102000.

If you are using an AM Noise Detector with a serial number smaller than 102000, you do not have to perform an update as you have to use the file that is part of the firmware.

This paper covers the manual installation of the updated detector gain file.

#### Preparing the installation

The gain files are available for download on the [R&S®FSUP website](#). Download the files and save them to a memory stick. The memory stick should contain two files:

- FSUP-Z1-SN100000-101999.csv

This file has the same contents as the one that is part of the firmware. This file is valid for R&S FSUP-Z1 with serial numbers up to 101999.

- FSUP-Z1-SN102000-plus.csv

This file contains the updated content for R&S®FSUP-Z1 with serial numbers 102000 or higher.

Before beginning the installation, you have to rename the file (e.g. FSUPZ1\_2). Because the R&S®FSUP shows only the first 8 characters of the file name, you should use a file name with a maximum of 8 characters. Then, connect the memory stick to one of the USB interfaces of the R&S®FSUP.

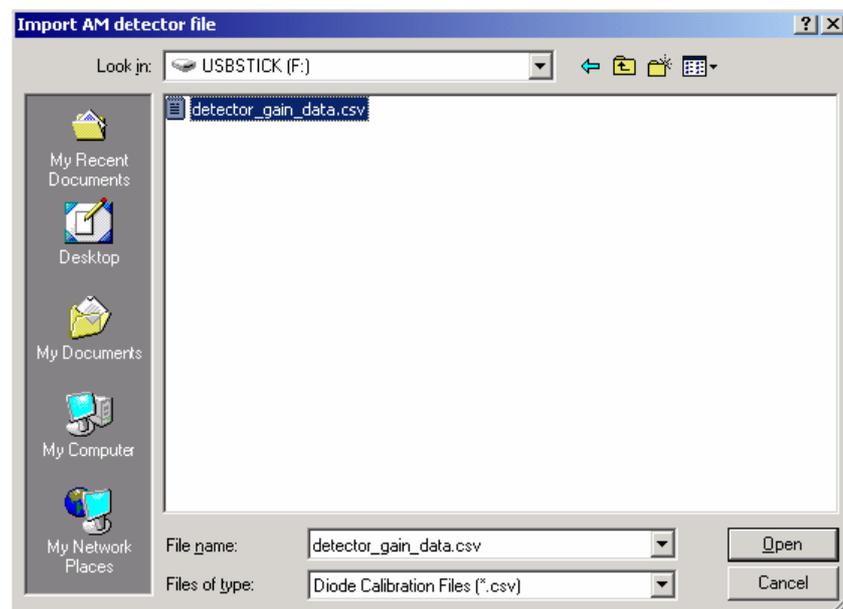
For an easy installation process, you should also connect a keyboard and a mouse to the R&S®FSUP.

### Installing the gain file

The rest of the installation is done on the R&S®FSUP itself with its front panel interface.

- ▶ Press the PRESET key to restore the default state of the R&S®FSUP.
- ▶ Enter the signal source analyzer with the "SSA Home" hotkey.
- ▶ Activate the AM noise measurement with the "AM Noise Meas" softkey.
- ▶ Enter the "Detector Settings" menu by pressing the "Settings" hotkey and then selecting the "Detector Settings" softkey.
- ▶ Open the side menu with the "Next" hotkey.
- ▶ Press the "Import Detector Settings" softkey.

The R&S®FSUP opens a standard Windows dialog box to select a file.



- ▶ Select the updated gain file and import it by pressing the "Open" button.

The R&S®FSUP imports the file with the name that you assigned previously.

After the import is done, you can select the file from the "AM Detector Calibration File" dropdown menu in the "Amplitude Noise Calibration" dialog box.

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