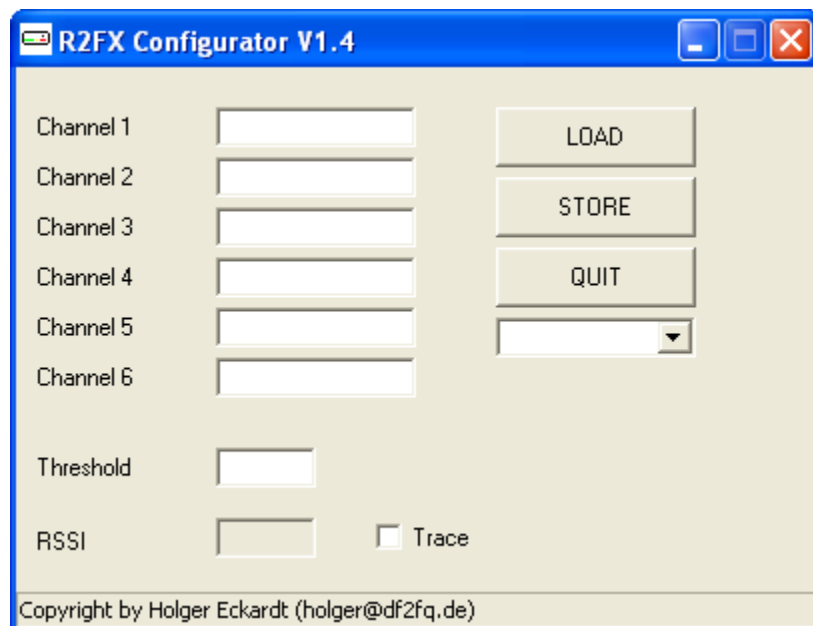


R2FX-Config V1.4

The software “R2FX-Config” reads and programs the parameter memory of the weather satellite receiver R2FX. It works under all Windows versions from Win98 to Win 7. No installation is necessary. Copy the program in any folder you want and just start it.

Connection to the receiver

The program communicates with the receiver through the RS232 (COM) interface. You need a 9-pin serial one-to-one cable (no crossed wires). Today notebooks and netbooks do not have a COM interface anymore. In that case there are USB to RS232 adapters available in almost every computer shop.

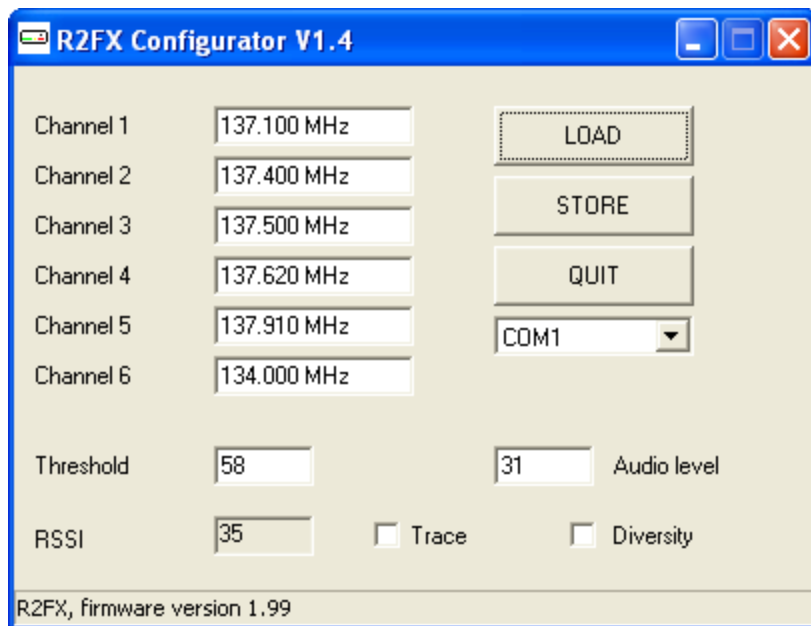


Operation

On the screen you see the program window right after start. First click into the selector window below the QUIT button and select the COM port to which the receiver is connected. Of course the receiver must be switched on for communication.

Next click the LOAD button to download the current parameters from the receiver. After a few seconds you see the programmed frequencies in the windows „Channel 1“ to Channel 6“. The „Threshold“ window shows the RSSI limit above where the receiver stops in scan mode. The window below displays the current RSSI value (Radio Signal Strength Indicator). This is a relative measure of the receiver input level. The status line at the lower edge of the window shows the firmware version of the receiver.

After a successful download of the receiver parameters the window should look like that:



The window “Audio level” and the check box “Diversity” appears only with receiver firmware version above 1.90. Only with this version you can control this parameters by software. At the older version it could only be done by hand.

The range of the audio level is between 0 and 31 and corresponds to the output voltage in 10mV steps (e.g. 31 = 310mV_{rms}). Many notebooks only have microphone inputs instead of line inputs. Here the value should not exceed 1 or 2.

You can modify all values except of RSSI. I.e., you can enter the value in the appropriate window. Valid frequencies are 134.000 to 138.990 MHz in 10kHz steps (the last digit is always considered as Zero). The threshold numbers go from 0 to 99. Diversity mode is activated or de-activated by clicking the appropriate check box.

Important: Only by clicking the STORE button the values will be transferred into the receiver memory. Depending on the firmware version this will take between 5 and 15 seconds.

If you click the “Trace” check box the RSSI value updates once a second. At the same time another windows opens (not with Win98 and 2000) where you can see the developing of the RSSI level over a period of 6 minutes. The green horizontal line shows the current Threshold value. The graph is useful to monitor the signal strength of a satellite pass, to see if there is an interferer on the channel or to adjust the Threshold value properly.

As the name already implies the QUIT button quits the programm.

NOAA19

The NOAA19 frequencies of 137.9125MHz does not fit into the 10kHz spacing. For the receiver this is not a problem since the AFC (automatic frequency correction) has a tuning range of +/-8kHz. Just adjust the receiver to 137.910kHz and the small offset of 2.5kHz will be easily compensated by the AFC.