

## Controlling of RF-SUISSE modules and equipment via RS232

RF-SUISSE product with RS232 interface can be controlled via user programs or via any terminal program running on a PC. Common programs are Minicom under Linux<sup>®</sup> and Hyper Terminal under Windows<sup>®</sup>. Select the RS232 interface where the unit is connected to and set it to 9600Bd, 8N1.

In this example we want to use the RS-MS1384400 to show how easy it is to control the synthesizer. All commands are shown in the programming section of the product manual. > is the line where the command is entered, >> is the response line.

First we want to make sure that the unit is attached and is the one we control:

>QN	request the Name
>>RS-MS1384400	response via RS232

Now we check the firmware revision:

>QV	request the firmware Version
>>1.0.5	the unit has firmware version 1.0.5

... and serial number:

>Q#	request serial number
>>538245	the unit has serial number 538245

Time to program a frequency:

>F152060000	frequency in Hertz
>>F152060000	confirmation of set frequency in Hz
or:	
>f152.06M	frequency in MHz
>>F152060000	confirmation of set frequency in Hz
or:	
>F152060k	frequency in kHz
>>F152060000	confirmation of set frequency in Hz

Let's try a frequency which can not be set:

```
>F455.7643M
>>S455765000
```

 the closest possible frequency is chosen and confirmed!

Another mistake:

```
>F4500M
>>ERROR
```

 frequency outside range  
an error message is returned

Setting power levels:

```
>P0
>>OK
```

 setting output power level 0 (max power)  
confirmed

All commands can be entered in upper and lower case characters unless the datasheet shows that upper and lower case are used to control different states.

In case of the RS-MS1384400 all commands can have a OK or ERROR response except for frequency which will return the frequency which was set by the internal controller.

For all RF-SUISSE product frequency can always be set in either Hz, kHz or MHz

As we continuously improve our product we reserve the right to change published specifications without further notice.

All product manufactured and sold by INWAVE AG under the RF-SUISSE brand is intended for laboratory use or are components (modules) not suitable for consumer use. Thus they are not required to and do not carry CE certification.

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