

## Format Specification for Generic Generator Files

Generic generator configuration files are used to configure the EMC32 generator driver in order to enable it to remotely control a generator via its GPIB bus interface for which no dedicated driver exists.

An example files GenSMG.DeviceConfiguration is available from the EMC32 installation CD-ROM.

Please refer to them or the example listing below for further clarification of the format specification.

[Listing of DemoGenerator.DeviceConfiguration](#)

[FileInfo]

Autor=Rohde&Schwarz

Version=1.00

MeasClass=0

Start=0.0

Stop=0.0

Description=GenericGenerator

;GPIB strings can have leading characters:

; \$ this command string has to be synchronized

; & this command string is a query: a GPIB "read (binary) string" must follow

; @n@ wait n milliseconds after this command

[General]

;Indicates that this file is for GenericGenerator Driver

Driver=GenericGenerator

DeviceVersion=2.2

Miscellaneous=Test Version for SMY

[GpibSettings]

;1=CR 2=NL 3=CR+NL

EOITremination=1

GpibTimeout=100

SyncTimeout=100

SyncActive=1

[Initialize]

;fix mode

Mode=1

Count=1

GpibLine1=\*RST;\*HDR 0;:ATT:FIXED;

[Frequency]

;fix mode

Mode=3

Unit=Hz

Range=100e3; 1e9; 0.01

Default=1e6

GpibLine=:RF %f;

[Level]

;fix mode

Mode=3

Unit=dBm

Range=-100; 16; 0.1

Default=-60

GpibLine=:LEV %f;

[SwitchLevel]

;fix mode

;Lines: "ON" and "OFF"

Mode=1

Count=2

Line1=ON

GpibLine1=:LEV:ON;

Line2=OFF

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GpibLine2=:LEV:OFF;
[SwitchModulationOn]
;fix mode
;ValLine values correspond with modulation types: 1=AM, 2=FM, 3=PM, 4=PHM
Mode=2
Count=3
ValLine1=1
GpibLine1=:AM;
ValLine2=2
GpibLine2=:FM;
ValLine3=3
GpibLine3=BLANK;
[SwitchModulationOff]
;fix mode
;ValLine values correspond with modulation types: 1=AM, 2=FM, 3=PM, 4=PHM
Mode=2
Count=3
ValLine1=1
GpibLine1=:AM:OFF;
ValLine2=2
GpibLine2=:FM:OFF;
ValLine3=3
GpibLine3=BLANK:OFF;
[ModAMFrequency]
;mode 2 or 3
Mode=3
Unit=Hz
Range=1; 10000; 0.1
GpibLine=:AF %f;
Default=1000
[ModFMFrequency]
Mode=2
Unit=Hz
Count=8
ValLine1=40
GpibLine1=:AF 40;
ValLine2=150
GpibLine2=:AF 150;
ValLine3=300
GpibLine3=:AF 300;
ValLine4=400
GpibLine4=:AF 400;
ValLine5=1000
GpibLine5=:AF 1000;
ValLine6=3000
GpibLine6=:AF 3000;
ValLine7=6000
GpibLine7=:AF 6000;
ValLine8=15000
GpibLine8=:AF 15000;
Default=5
[ModPMFrequency]
;mode 2 or 3
Mode=3
Unit=Hz
Range=1; 10000; 0.1
```

```
GpibLine=:AF %f;
Default=1000
[ModAMDepth]
Mode=3
Unit=%
Range=0; 100; 0.1
Default=80
GpibLine=:AM %f;
[ModFMDeviation]
;mode 2 or 3
Mode=3
Unit=Hz
Range=1; 800000; 1
Default=1000
GpibLine=:FM %f;
[ModPMPulseWidth]
Mode=3
Unit=us
Range=0.1; 1000000; 1
Default=2500
GpibLine=;
[ModAMSource]
;0=internal, 1=ext AC, 2=ext DC, 3=external
Mode=2
Count=2
ValLine1=0
GpibLine1=:INT;
ValLine2=3
GpibLine2=:EXT;
Default=0
[ModFMSource]
;0=internal, 1=ext AC, 2=ext DC, 3=external
Mode=2
Count=2
ValLine1=0
GpibLine1=:INT;
ValLine2=3
GpibLine2=:EXT;
Default=0
[ModPMSource]
;0=internal, 1=ext AC, 2=ext DC, 3=external
Mode=2
Count=1
ValLine1=3
GpibLine1=:EXT;
Default=0
```