SMA, SMQ & PMQ Commands manual

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Introduction

Welcome to the command user manual of the AUDAC SMA, SMQ and PMQ amplifiers. For more information about the amplifiers, see the corresponding user manual. This manual only describes the use of the commands for controlling the amplifiers through RS−232.

Input list

0	No input selected	
1	Input 1	
2	Input 2	
3	Input 1+2	
4	Input 3	(Only SMQ/PMQ)
5	Input 4	(Only SMQ/PMQ)
6	Input 3+4	(Only SMQ/PMQ)

Dante inputs (optional)

7	Dante 1	
8	Dante 2	
9	Dante 1+2	
10	Dante 3	(Only SMQ/PMQ)
11	Dante 4	(Only SMQ/PMQ)
12	Dante 3+4	(Only SMQ/PMQ)

Output list

1	Output 1
2	Output 2
3	Output 3 (Only SMQ/PMQ)
4	Output 4 (Only SMQ/PMQ)

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Using the commands

The SMA, SMQ and PMQ amplifiers have an RS–232 communication port which can control the standard operation functions of the amplifier as further described in this manual.

It must be configured with 19200 baud, 8 data bits, 1 stop bit, no parity

Command overview

Startsymbol|destination|source|command|argument's|checksum|stopsymbol

Example: Set volume output 1 to –30dB

ASCII: *#|Q001|web|SV01|30|U|return*

HEX: *237C513030317C5765627C535630317C33307C313262317C0D0A*

Important:
– The address of the SMA, SMQ or PMQ is fixed at Q001.
– The checksum is CRC–16 excluding the '#'. You can replace the checksum with 'U', this is always accepted as checksum.
– return = 0x0d 0x0a
– source address has a maximum length of 4 characters and cannot contain "|" or "#"

Command flow
1) The client sends a command to the amplifier
2) The amplifier acknowledges the command by returning the same command and a '+' as argument.
3) The amplifier updates all client's with the new information

All volume and routing settings are saved automatically with every change and will remain when the device is switched off.

SV0x

Set volume of an output to a certain level
>Command: SVx, with x the output number whereof the volume should change.
>Arguments: Volume in neg dB, 0 is maximum volume, 70 is minimum volume

Example
>Set volume of output 2 to −40dB
>Command   #|Q001|web|SV02|40|U|return
>Answer   #|web|Q001|SV02|+|U|return
>Update   #|ALL|Q001|V02|40|7378|return

SVU0x

Set volume with 3dB up for a certain output
>Command: SVU0x, with x the output number whereof the volume should increase.
>Arguments: 0 (none)

Example
>Current is Volume −30dB, set volume up with 3dB for output 1
>Command   #|Q001|web|SVU01|0|U|return
>Answer   #|web|Q001|SVU01|+|U|return
>Update   #|ALL|Q001|V01|27|U|return

SVD0x

Set volume with 3dB down for a certain output
>Command: SVD0x, with x the output number whereof the volume should decrease.
>Arguments: 0 (none)

Example
>Current volume is −27dB, set volume down with 3dB for output 1
>Command   #|Q001|web|SVD01|0|U|return
>Answer   #|web|Q001|SVD01|+|U|return
>Update   #|ALL|Q001|V01|30|U|return

SR0x

Set routing for an output (select input)
>Command: SR0x, with x the output where the routing (input) should change for.
>Arguments: Input numbers 1 to 6 (3, 4 and 3+4 only for SMQ/PMQ)

Example
>Select input 2 for output 1
>Command   #|Q001|web|SR01|2|U|return
>Answer   #|web|Q001|SR01|+|U|return
>Update   #|ALL|Q001|R01|2|31ea|return

SRU0x

Set routing up for an output
        Command: SRU0x, with x the output where the routing (input) should increase for
        Arguments: 0 (none)

Example
        Increase routing for output 1 (current is selected is input 1 which changes to input 2)
        Command   #|Q001|web|SRU01|0|U|return
        Answer   #|web|Q001|SRU01|+|U|return
        Update   #|ALL|Q001|R01|2|U|return

SRD0x

Set routing down for an output
        Command: SRD0x, with x the output where the routing (input) should decrease for
        Arguments: 0 (none)

Example
        Decrease routing for output 1 (current is selected is input 2 which changes to input 1)
        Command   #|Q001|web|SRD01|0|U|return
        Answer   #|web|Q001|SRD01|+|U|return
        Update   #|ALL|Q001|R01|1|U|return

SM0x

Enable / disable mute for a certain output
        Command: SM0x, with x the output for which the mute status should change.
        Arguments: 0 (disable mute) or 1 (enable mute)

Example
        Enable mute for output 1
        Command   #|Q001|web|SM01|1|U|return
        Answer   #|web|Q001|SM01|+|U|return
        Update   #|ALL|Q001|M01|1|32c6|return

GVOx

Get volume info for a certain output
> Command: GVOx, with x the number of the output
> Arguments: 0 (none)

Example
> Get volume info for output 1
> Command   #|Q001|web|GVO1|0|U|return
> Answer   #|web|Q001|V01|20|U|return

GROx

Get routing info for a certain output
> Command: GROx, with x the number of the output
> Arguments: 0 (none)

Example
> Get routing info for output 1
> Command   #|Q001|web|GRO1|0|U|return
> Answer   #|web|Q001|R01|3|U|return

GMOx

Get mute info for a certain output
> Command: GMOx, with x the number of the output
> Arguments: 0 (none)

Example
> Get mute info for output 1
> Command   #|Q001|web|GMO1|0|U|return
> Answer   #|web|Q001|M01|0|U|return

GTE

Get temperature info for all outputs
> Command: GTE
> Arguments: 0 (none)

Example
> Get temperature for all outputs
> Command   #|Q001|web|GTE|0|U|return
> Answer   #|web|Q001|TE|36^35^39^42|U|return

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