APG / ACTIVE AUDIO – SERVICE PROCEDURE

COMMANDS MANUAL
MPA / DA AMPLIFIER:

APG DA1.4 / DA2.8 / DA6
ACTIVE AUDIO MPA4350 / 4700 / 41500 / 16700

Code	Revision	Date	Comment	Author
DOP1973	-	2024-09-02		LR

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Details

Port;

Commands have to be sent to UDP port 6790 as string (json formatted).

Input list;

Source 1 - Analog input 1
Source 2 - Analog input 2
Source 3 - Analog input 3
Source 4 - Analog input 4
Source 5 - Digital input 1
Source 6 - Digital input 2
Source 7 - Digital input 3
Source 8 - Digital input 4
Source 9 - Streamer L
Source 10 - Streamer R

Set Source Mixer Gain

Command details;
This command will set the gain levels for each of the 10 selectable sources for each channel independtly.

Command;
set_source_mixer_gain (arg1), (arg2), (arg3)

Argument 1	Argument 2	Argument 3	Minimum value	Maximum value
Channel 1-4	Source 1-10	Gain value	-80	15

Command example;
Set source 2 on channel one to -6dB.

{"command":"set_source_mixer_gain","arg1":1, "arg2":4, "arg3":-6}

Answer
{"status":OK, "response":sourceGainValue}

Set All Mixer Gain

Command details;
This command will set the gain levels for all 10 selectable sources for one channel simultaneously.

Command;
set_all_mixer_gain (arg1), (arg2)

Argument 1	Argument 2	Minimum value	Maximum value
Channel 1-4	Gain value array of all inputs	-80	15

Command example;
Set source 1 to -80dB, Set source 2 to -80dB, Set source 3 to -80dB, Set source 4 to -80dB, Set source 5 to 0dB, Set source 6 to 0dB, Set source 7 to -80dB, Set source 8 to -80dB, Set source 9 to -80dB and Set source 10 to -80dB on channel one.

{"command":"set_all_mixer_gain","arg1":1, "arg2":[-80,-80,-80,-80,0,0,-80,-80,-80,-80]}

Answer
{"status":OK, "response":arrayGainValue}

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Set Gain Single Channel

Command details;
This command will set the output gain (output volume) for one channel independtly.

Command;
set_channel_gain (arg1), (arg2)

Argument 1	Argument 2	Minimum value	Maximum value
Channel 1-4	Gain value	-80	15

Command example;
Set channel 1 output level to -10.0dB.

{"command":"set_channel_gain", "arg1":1, "arg2":-10.0}

Answer
{"status":OK, "response":gainValue}

Increase Gain Single Channel

Command details;
This command will increase the output gain (output volume) in steps for one channel independtly, upto the channel´s maximum level if 15dB.

Command;
set_channel_gain_up (arg1), (arg2)

Argument 1	Argument 2	Minimum value	Maximum value
Channel 1-4	Step value	0	95

Command example;
Increase channel 2 output level by 3dB per step.

{"command":"set_channel_gain_up", "arg1":2, "arg2":3.0}

Answer
{"status":OK, "response":updatedGain}

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Decrease Gain Single Channel

Command details;
This command will decrease the output gain (output volume) in steps for one channel independtly, down to the channel´s minimum level if -80dB.

Command;
set_channel_gain_down (arg1), (arg2)

Argument 1	Argument 2	Minimum value	Maximum value
Channel 1-4	Step value	0	95

Command example;
Decrease channel 3 output level by 2dB per step.

{"command":"set_channel_gain_down", "arg1":3, "arg2":2.0}

Answer
{"status":OK, "response":updatedGain}

Set Gain Per Group

Command details;
This command will set the gain level of any group.

Command;
set_group_gain (arg1), (arg2)

Argument 1	Argument 2	Minimum value	Maximum value
Group 1-6	Gain value	-80	15

Command example;
Set group 1 gain to -10.0dB

{"command":"set_group_gain", "arg1":1, "arg2":-10.0}

Answer
{"status":OK, "response":gainValue}

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Increase Gain Group

Command details;
This command increase the gain level of any group in steps, upto the channel´s maximum level if 15dB.

Command;
set_group_gain_up (arg1), (arg2)

Argument 1	Argument 2	Minimum value	Maximum value
Group 1-6	Step value	0	95

Command example;
Increase gain of group 2 by 3dB per step.

{"command":"set_channel_gain_up", "arg1":2, "arg2":3.0}

Answer
{"status":OK, "response":updatedGain}

Decrease Gain Group

Command details;
This command decrease the gain level of any group in steps, upto the channel´s minimum level if -80dB.

Command;
set_group_gain_down (arg1), (arg2)

Argument 1	Argument 2	Minimum value	Maximum value
Group 1-6	Step value	0	95

Command example;
Decrease gain of group 3 by 2dB per step.

{"command":"set_group_gain_down", "arg1":3, "arg2":2.0}

Answer
{"status":OK, "response":updatedGain}

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Mute Single Channel

Command details;
This command will mute the audio output for each channel independtly.

Command;
set_channel_mute (arg1), (arg2)

Argument 1	Argument 2	Mute Enabled	Mute Disabled
Channel 1-4	Mute Status	True	False

Command example;
Mute channel 4

{"command":"set_channel_mute","arg1":4,"arg2":true}

Answer
{"status":OK, "response":muteStatus}

Mute Group

Command details;
This command will mute one group of channels independtly from other groups.

Command;
set_group_mute (arg1), (arg2)

Argument 1	Argument 2	Mute Enabled	Mute Disabled
Group 1-6	Mute Status	True	False

Command example;
Mute group 4

{"command":"set_group_mute","arg1":4,"arg2":true}

Answer
{"status":OK, "response":muteStatus}

Mute All

Command details;
This command will mute the audio output channel simultaneously.

Command;
set_mute_all (arg1)

Argument 1	Mute Enabled	Mute Disabled
Mute Status	True	False

Command example;
Mute all channels

{"command":"set_mute_all","arg1":true}

Answer
{"status":OK, "response":muteStatus}

Set Speaker Preset

Command details;
This command will activate a speaker preset stored on the device.

Command;
set_speaker_preset (arg1), (arg2)

Argument 1	Argument 2
Channel 1-4	Folder/Preset

Note: the "Folder/Preset" is case sensitive.

Command example;
set Folder 1/File 1 as speaker preset for channel 1

{"command":"set_speaker_preset","arg1":1,"arg2":"Folder 1/File 1"}

Answer
{"status":OK, "response":presetPath}

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Set Global Preset

Command details;
set Default Folder/Default Preset as global device audio preset

Command;
set_global_preset (arg1)

Argument 1
Folder/Preset

Note: the "Folder/Preset" is case sensitive.

Command example;
set Folder 1/File 1 as speaker preset for channel 1

{"command":"set_global_preset", "arg1":"Default Folder/Default Preset"}

Answer
{"response": "Default Folder/Default Preset", "status": "OK"}

Set Amplifier Standby

Command details;
This command will enable and dispable the device standby function, this will only disable the amplifier side of the device, the DSP will remain active.

Command;
set_standby_status (arg1)

Argument 1	Mute Enabled	Mute Disabled
Status	True	False

Command example;
Enable standby function.

{"command":"set_standby_status","arg1":true}

Answer
{"status":OK, "response":statusValue}

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Get Source Mixer Gain

Command details;
Get source mixer gain from channel from 1 to 4.

Command;
get_source_mixer_gain (arg1)

Argument 1	Channel	1-4

Command example;
get a 10 items array with mixer gain of all sources for channel 2

{"command":"get_source_mixer_gain","arg1":2}

Answer
{"status":OK, "response":arrayGainValue}

Get Single Channel Gain

Command details;
Get channel gain from channel from 1 to 4.

Command;
get_channel_gain (arg1))

Argument 1	Channel	1-4

Command example;
Get channel gain from channel from 1

{"command":"get_channel_gain","arg1":1}

Answer
{"status":OK, "response":gainValue}

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Get Mute Status per Channel

Command details;
Get mute status for channel 1 false = unmuted, true = muted.

Command;
set_mute_all (arg1)

Argument 1	Mute Enabled	Mute Disabled
Mute Status	True	False

Command example;
Get mute status

{"command":"get_channel_mute", "arg1":1}

Answer
{"status":OK, "response":muteValue}

Get Gain Per Group

Command details;
Get group gain.from groups 1-6

Command;
Get_group_gain (arg1)

Argument 1	Group 1-6

Command example;
get group 5 gain value

{"command":"get_group_gain","arg1":5}

Answer
{"status":OK, "response":gainValue}

Get Mute Status Group

Command details;
Get group mute status, false = unmute, true = mute

Command;
get group mut group from 1 to 6 (arg1)

Argument 1	Channel	1-6

Command example;
get group 3 mute status.

{"command":"get_group_mute", "arg1":3}

Answer
{"status":OK, "response":muteValue}

Get Amplifier Standby Status

Command details;
Get standby status

Command;
Get standby status

	Mute Enabled	Mute Disabled
Mute Status	True	False

Command example;
{"command":"get_standby_status"}

Answer
{"status":Ok, "response":standbyValue}

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Get Amplifier Status

Command details;
This command will get amplifier status.

Command;
get_amplifier_status

	OK	Something wrong
Amp Status	True	False

Command example;
get amplifier status

{"command":"get_amplifier_status"}

Answer
{"status":Ok, "response":statusValue}

true = OK false = something wrong

Get Output Level

Command details;
get an array with output level (according to the amount of channel) (-60,0 means no signal)

Command;
get_output_level

Command example;
get output level

{"command":"get_output_level"}

Answer
{"response": [-51.0, -51.8, -58.7, -58.2], "status": "OK"}

Get Module Temperature

Command details;
Get the highest temperature of module(s)

Command;
get_module_temperature

Command example;
{"command":"get_module_temperature"}

Answer
{"response": 45.6, "status": "OK"}

Get Module Voltage

Command details;
Get the input voltage of the amplifier (10 as value means out of range)

Command
Get module input voltage.

Command example;
{"command":"get_module_voltage"}

Answer
{"response": 235, "status": "OK"}

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