
domogik-plugin-mprsg6z

Release 0.1

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1.1 Purpose

This is a no xPL plugin, sensor value are update by **0mq messages**

This plugin allows you to use the [Monoprice Amp Multizone MPR-6ZHMAUT](#) with Domogik via rs232 protocol's commands.

The concept of devices **Virtual Zone (Vzone)** is used to provide a more flexible use of the **Physical Amp(s)**.

The **Virtual Amp (Vamp)** is the grouping of 1 to 3 **Physical Amp(s)** (if connected together with 18-pin ribbon cable) accessible by the same rs232 connector. Each **Physical Amp** on the same rs232 connector is numbered from 1 to 3 and each **Physical zone** is numbered from 1 to 6:

Amp	Amp's Number	Physical Zone	Physical Zone's Number
n°1	1	1 to 6	11,12,13,14,15,16
n°2	2	1 to 6	21,22,23,24,25,26
n°3	3	1 to 6	31,32,33,34,35,36

A **Vamp** is composed of **Vzone** gathering a unique or several **Physical zones** for which the following parameters are available :

Sensors :

Sensor	DT Type	Function	Description
Status	DT_String	Power state of the Vzone	Vzone can be in 3 different states : • Available (off) • On • Locked (one of the Physical Zone is already On in another Vzone)
MU	DT_Switch	Mute state of the Vzone	• On : The Vzone is muted • Off: The Vzone is unmuted
DT	DT_Switch	Do not Disturb state of the Vzone	• On : The Vzone is blocked (on the keypad ?) • Off: The Vzone is free to use
VO	DT_Scaling	Volume level of the Vzone	Scale from 0 to 100% (0 to 38 via conversion)
TR	DT_Scaling	Treble level of the Vzone	Scale from 0 to 100% (0 to 14 via conversion)
BS	DT_Scaling	Bass level of the Vzone	Scale from 0 to 100% (0 to 14 via conversion)
BL	DT_Scaling	Balance level of the Vzone	Scale from 0 to 100% (-10 to +10 via conversion)
CH	DT_Number	Channel Number of the Vzone	Number from 1 to 6 corresponding to the channel 1 to 6

Commands :

Command	DT Type	Action	Description
PO	DT_Trigger	Switch the state of the Vzone's Status	Vzone can be in 3 differents states : • On • Off • Locked (when the vzone is locked, no action is possible on it)
MU	DT_Switch	Switch the state of the Vzone's Mute	• On : The Vzone is muted • Off: The Vzone is unmuted
DT	DT_Switch	Switch the state of the Vzone's Do not Disturb	• On : The Vzone is blocked (on the keypad ?) • Off: The Vzone is free to use
VO	DT_Scaling	Scale the Volume level of the Vzone	Scale from 0 to 100% (0 to 38 via conversion)
TR	DT_Scaling	Scale the Treble level of the Vzone	Scale from 0 to 100% (0 to 14 via conversion)
BS	DT_Sclaing	Scale the Bass level of the Vzone	Scale from 0 to 100% (0 to 14 via conversion)
BL	DT_Scaling	Scale the Balance level of the Vzone	Scale from 0 to 100% (-10 to +10 via conversion)
CH	DT_Number	Set the Channel Number of the Vzone	Number from 1 to 6 corresponding to the channel 1 to 6

Each **Physical Zone** can be used in several **Vzone**, but can be used by one **Vzone** at the time.

1.2 Dependencies

No dependencies needed.

1.3 Plugin configuration

You first need to configure the **Vamp** device with the following parameters:

Key	Type	Description
device	DT_String	The rs232 device where the Physical Amp are connected to (default : “/dev/ttyUSB0”)
channel1	DT_String	Description of the channel 1 of the Physical Amp (default : “channel1”)
channel2	DT_String	Description of the channel 2 of the Physical Amp (default : “channel2”)
channel3	DT_String	Description of the channel 3 of the Physical Amp (default : “channel3”)
channel4	DT_String	Description of the channel 4 of the Physical Amp (default : “channel4”)
channel5	DT_String	Description of the channel 5 of the Physical Amp (default : “channel5”)
channel6	DT_String	Description of the channel 6 of the Physical Amp (default : “channel6”)

Client plugin-mprsg6z.

mprsg6z
stopped
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Configuration

Start the client with Domogik
(auto_startup)

☐

Automatically start the client at Domogik startup

device (device)

Serial bus to use to connect to the virtual Amp

channel1 (channel1)

Name of the channel 1 of virtual Amp

channel2 (channel2)

Name of the channel 2 of virtual Amp

channel3 (channel3)

Name of the channel 3 of virtual Amp

channel4 (channel4)

Name of the channel 4 of virtual Amp

channel5 (channel5)

Name of the channel 5 of virtual Amp

channel6 (channel6)

Name of the channel 6 of virtual Amp

Save the configuration

1.4 Create the devices

1.4.1 Device parameters configuration

You can now create you first **Vzone** device :

Key	Type	Description
childs	DT_String	Childs Physical zone separated by comma (example : “11”)

Client plugin-mprsg6z.

mprsg6z

stopped ▾

Informations

Configuration

Domogik devices

Create a new device

Create by device type

Vzone

Client plugin-mprsg6z.

mprsg6z

alive

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Create a new device : mprsg6z.vzone

Main parameters

Device name	my_new_vzone
	The display name for this device
Description	Group the physical zone 11, 13 and 16
	A description for this device
Reference	
	A reference for this device

Global parameters

Global parameters are parameters which are not directly related to the device handled by the plugin. They are related to the way the plugin will handle the device.

childs	Childs physical zone of a vamp. Must be separated by a coma, example : 11, 12, 13	11,13,16
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Create the device

1.5 Start the plugin

You can now start the plugin

1.6 Set up your widgets on the user interface

You can now place the widgets of your devices features on the user interface.

CHAPTER 2

Changelog

2.1 0.1

- Plugin creation