

How to interface an Element to an external profanity delay

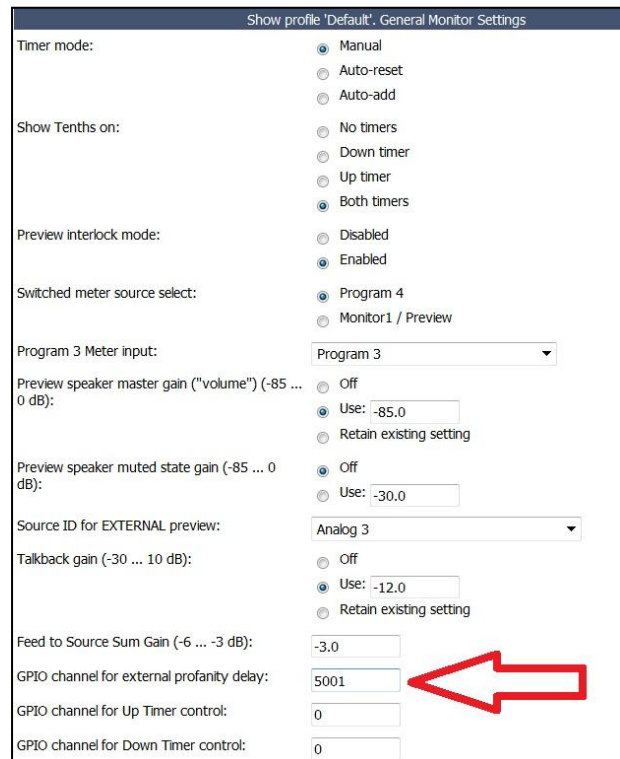
2 January 2012, Cleveland Ohio, USA

In this day and age having a profanity delay in an air chain is essential. The good news is that the vast majority of profanity delay units can be controlled via the Element console itself, without having to build out a separate interface box.

1) In a web browser, open the Element HTTP pages and choose the **GPIO configuration** menu. In this HTTP page, each of the 4 GPIO ports are represented and a *Livewire channel number* is assigned to each of the ports.

To use one of these ports to trigger an external profanity delay, you must give the port you wish the same channel number assigned to it as you will in the **Show Profile**. **NOTE:** The channel number cannot be a duplicate of an existing channel number that has GPIO data on it.

Navigate to the **Configuration** menu for your Element and go to the **Show Profile** section. Each Show Profile has a **General Monitor Settings** section (shown on the right).



Show profile 'Default'. General Monitor Settings

Timer mode: Manual
 Auto-reset
 Auto-add

Show Tenths on: No timers
 Down timer
 Up timer
 Both timers

Preview interlock mode: Disabled
 Enabled

Switched meter source select: Program 4
 Monitor1 / Preview

Program 3 Meter input: Program 3

Preview speaker master gain ("volume") (-85 ... 0 dB): Off
 Use: -85.0
 Retain existing setting

Preview speaker muted state gain (-85 ... 0 dB): Off
 Use: -30.0

Source ID for EXTERNAL preview: Analog 3

Talkback gain (-30 ... 10 dB): Off
 Use: -12.0
 Retain existing setting

Feed to Source Sum Gain (-6 ... -3 dB): -3.0

GPIO channel for external profanity delay: 5001

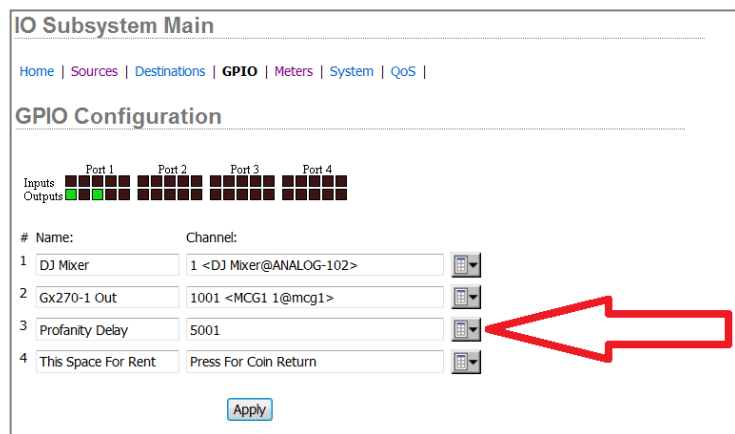
GPIO channel for Up Timer control: 0

GPIO channel for Down Timer control: 0

At the bottom of that section is there is a field labeled "GPIO channel for external profanity delay." In that field, enter in the channel number you wish to associate with it.

Note that this step has to be performed in **every Show profile** in which you wish to have control of the profanity delay.

2) Once a channel number has been assigned to the field described in step (1) above, return to the GPIO configuration page of the device whose port will trigger the profanity delay (Element GPIO, GPIO Node, or PowerStation).



IO Subsystem Main

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GPIO Configuration

Inputs: Port 1 Port 2 Port 3 Port 4
 Outputs: [Green] [Red] [Red] [Red]

#	Name:	Channel:
1	DJ Mixer	1 <DJ Mixer@ANALOG-102>
2	Gx270-1 Out	1001 <MCG1 1@mcg1>
3	Profanity Delay	5001
4	This Space For Rent	Press For Coin Return

Apply

On the port you'll use for your profanity delay, type the Channel Number that you assigned to "GPIO channel for external profanity delay" in the Show Profiles. This port will now follow the logic that is associated with the profanity delay buttons on the Element console surface. For example, when the DUMP button is pushed, Output 1 of the GPIO port will be active low. Wire up the pins in the following chart to those that do the same actions in your external profanity delay.

GPIO External Profanity Delay Logic			
Name	Pin	Type	Notes
INPUTS			
DUMP Lamp	11	Active Low Input	Illuminates DUMP lamp (located on Element Monitor Module).
EXIT Lamp	12	Active Low Input	Illuminates EXIT lamp.
PAUSE Lamp	13	Active Low Input	Illuminates PAUSE lamp.
ENGAGE Lamp	14	Active Low Input	Illuminates ENGAGE lamp.
DELAY ANNUNCIATOR Command	15	Active Low Input	Illuminates the DELAY annunciator on the Element main screen.
OUTPUTS			
DUMP Switch	1	Open Collector to Logic Common Return	Active when DUMP button is depressed.
EXIT Switch	2	Open Collector to Logic Common Return	Active when EXIT button is depressed.
PAUSE Switch	3	Open Collector to Logic Common Return	Active when PAUSE button is depressed.
ENGAGE Switch	4	Open Collector to Logic Common Return	Active when ENGAGE button is depressed.
Not Used	5	Open Collector to Logic Common Return	

table taken from Chapter 4, page 52 of the Element manual

If you have questions or need further assistance, please contact Axia Support at +1-216-622-0247, or email support@axiaaudio.com.