

# MMA Technical Standards Board/ AMEI MIDI Committee

Letter of Agreement for Recommend Practice

## GM2 Mod Depth Range Response (RP-044)

### Abstract:

Defines the peak pitch change a GM2 device must be able to meet when set by the Mod Depth Range RPN. The range for device specifications such as SP-MIDI which are based on GM2 are not intended to be set by this RP, but instead will need to be set by additional RPs.

### Background:

GM2 introduced a new defined controller using Registered Parameter Number 05. The Modulation Depth Range (Vibrato Depth Range) control is used to set the peak value of Vibrato which can be applied via the Mod Wheel (CC 1). The GM2 Specification defined a default peak value of +/- 50 cents, but the possible peak value could be over +/- 10 octaves, leading some device makers to wonder just how much pitch change they were expected to implement.

The question is particularly significant for makers of SP-MIDI devices which are expected to be of lower complexity than GM2 devices but happen to refer to the GM2 specification for many of their implementation details. AMEI and MMA have agreed that the maximum range possible for GM2 and SP-MIDI devices should not necessarily be the same, and so intend to make separate recommendations for each application. This recommendation only applies to GM2 devices.

### Details:

Section 3.4.4 of the GM2 Specification Document will be modified as follows:

ADD under "[Recommended]":

Devices should be able to pitch change a minimum of 6 semitones (+/-600 cents).

*(Note: This value is only intended to apply to GM2 devices. In the case of other device specifications that are based upon and reference this specification, implementers should consult the referencing specification for the appropriate value).*