MIDI MANUFACTURERS ASSOCIATION AMEI Association of Musical Electronics Industry

MMA Technical Standards Board/ AMEI MIDI Committee

Confirmation of Approval of New MIDI Message

Date of issue: 3/02/99 Originated by: MMA
Reference TSBB Item #: 152 Volume #: 22 (revised)
Title: Modulation Depth Range RPN
CA#: 26
Related item(s): MIDI 1.0 Detailed Specification, General MIDI 2 R/P

Abstract:

This proposal defines Registered Parameter Number (RPN) #05 as Modulation Depth Range to be used to scale the effective range of Control Change 1 (Modulation Wheel). The correlation between Modulation Depth Range values and modulation depth is defined by individual manufacturers or MMA/AMEI recommended practices.

Background:

The amount of modulation to apply when the Modulation Wheel is moved has never been defined. As a result, the Modulation Depth Range, sometimes called Modulation Sensitivity, is controlled in some synthesizers either by Non-Registered Parameter Numbers (NRPNs) or System Exclusive Messages (Sysex). These methods are not compatible among all manufacturers, therefore a uniform message is proposed herein which will benefit music data publishers and musicians by providing predictable and consistent modulation depth response.

Details:

[REGISTERED PARAMETER NUMBER]
MODULATION DEPTH RANGE

LSB	MSB	Function
05	00	Modulation Depth Range

Message Format: Bn 64 05 65 00 where n is the MIDI channel number.

This message must be followed by Data Entry, Increment, and Decrement, following the normal rules for Registered Parameters.

Neither default setting nor definition is given for Modulation Depth values, so it is left to the discretion of the manufacturer unless specified by a particular RP. See the General MIDI Level 2 Recommended Practice for an example.

Comment:

The destination parameter for Modulation Wheel is generally Vibrato, but other parameters may be controlled at the discretion of the manufacturer, or may be defined in specific RPs, using the “Controller Destination Setting” message.