D P M® SP

System Exclusive
Commands Supplement
version 1.4 Addendum

This addendum adds the new System Exclusive messages available to the DPM® SP using software version 1.4. This version of software adds support for the DPM® SX II, also made by Peavey.

Message Descriptions:

General (global) Control/Info Messages - non-nibbleized (main id == 11h):

Byte parameter messages (sub id == 03h):

Sample Mode (extended id == 06h):

get sample mode:
        f0 00 00 1b 02 05 cc 11 03 02 06 00 f7

(set) sample mode:
        f0 00 00 1b 02 05 cc 11 03 03 06 01 pp f7

        pp = 00 (one-shot stop at end) or 01 (endless, manual stop)

The "(set) sample mode" message is output by the SP as a reply to the "get sample mode" message, or is recognized as an input command to alter the current sample mode in the SP. It should be noted that SysEx remote actuation of sampling via the SX II is not compatible with the endless mode, and will force the SP into one-shot mode if performed.

Sample Loop default (extended id == 07h):

get sample loop default:
        f0 00 00 1b 02 05 cc 11 03 02 07 00 f7

(set) sample loop default:
        f0 00 00 1b 02 05 cc 11 03 03 07 01 pp f7

        pp = 00 (default == loop disabled) or 01 (default == loop enabled)

The "(set) sample loop default" message is output by the SP as a reply to the "get sample loop default" message, or is recognized as an input command to alter the sample loop default in the SP. This parameter controls the state of the loop enable in new samples taken via the SX II direct sampling.

Maximum Sample Length enable (extended id == 08h):

get maximum sample length enable:
        f0 00 00 1b 02 05 cc 11 03 02 08 00 f7

(set) maximum sample length enable:
        f0 00 00 1b 02 05 cc 11 03 03 08 01 pp f7

        pp = 00 (length limit disabled) or 01 (length limit enabled)

The "(set) maximum sample length enable" message is output by the SP as a reply to the "get maximum sample length enable" message, or is recognized as an input command to activate or deactivate the sample length limit in the SP. The maximum sample length parameter limits the length of new samples taken via SX II direct sampling.

General (global) Control/Info Messages - nibbleized (main id == 32h):

Word Parameter Messages (sub id == 03h):

Maximum Sample Length (extended id == 02h):

get maximum sample length:

SMDI:
>f0 00 00 1b 02 05 cc 32 01 0002 02 00 f7

MIDI:
>f0 00 00 1b 02 05 cc 32 01 00 00 00 02 00 02 00 00 f7

(set) maximum sample length:

SMDI:
>f0 00 00 1b 02 05 cc 32 01 0004 02 01 pppp f7

MIDI:
>f0 00 00 1b 02 05 cc 32 01 00 00 00 04 00 02 00 01 p3 p2 p1 p0 f7

>pppp = maximum sample length value in k words

The "(set) maximum sample length" message is output by the SP as a reply to the "get maximum sample length" message, or is recognized as an input command to change the current maximum sample length setting in the SP. This parameter (when enabled) limits the length of new samples taken via SX II direct sampling. Values smaller than 8 (i.e., for 8k words) are rejected by the SP. Any larger value is permissible, but values which exceed the amount of installed sample memory in the SP are limited to that value.

Remote SMDI Operation Messages (main id == 33h):

These messages are used to remotely command SMDI operations equivalent to those which may be performed manually via the SP front panel. They use a four-digit additional message length immediately following the sub id byte and, when transmitted via MIDI, nibbleization of all subsequent message bytes up to the EOX. These commands may return the "operation" failed parameterless reply message. In most cases, a more specific error message will appear on the SP front panel display. Many of these operations involve sample data transfer and may incur substantial delays before the reply is available.

Start Sampling Command (sub id == 01h):

SMDI:
>f0 00 00 1b 02 05 cc 33 01 llll dd wwww f7

MIDI:
>f0 00 00 1b 02 05 cc 33 01 l3 l2 l1 l0 d1 d0 w3 w2 w1 w0 f7

>llll   = 0002
>dd   = SMDI slave device selector (SCSI id)
>wwww = wave number

This message is used to remotely command SX II direct sampling to begin. Valid values for the dd parameter are 0-6. This message may return the "insufficient memory is available" of "specific data object number is out of range" parameterless reply messages without attempting to record a sample. If sampling is started, no reply will appear until it stops. If the stop occurs because of a SCSI, internal or other error, the "operation failed" parameterless reply message will appear. Because the SP cannot receive MIDI messages nor be selected as a SMDI slave while sampling

is in progress, there is no provision made for remotely stopping sampling — the SP must be recording in one-shot mode. If this command is received while the SP is set for endless mode, manual stop recording, the mode will automatically be changed to one-shot mode.