## **ORDERING INFORMATION**

| ERING INFORMATION  | MODEL: M3LPA2          |  |  |  |  |
|--|------------------------|--|--|--|--|
| PLEASE FILL IN THIS SECTION                              | M-SYSTEM USE ONLY      |  |  |  |  |
| $\hat{\mathbf{U}}$ $\hat{\mathbf{U}}$ $\hat{\mathbf{U}}$ | $\hat{\mathbf{U}}$     |  |  |  |  |
|  | Job No. Inspected by : |  |  |  |  |
| ny   | Ser No. –              |  |  |  |  |
|  | Sales Inspected by :   |  |  |  |  |

Configurable with internal DIP switches and PC configuration software. Please use this sheet to specify how you need to configure the transmitter for shipping. Fill in blank sections or mark  $\square$  with  $\checkmark$  if necessary.

Model Company Name P/O No.

| TEM  | INPUT SETTING  Select the input type among t |  |                 |  |
|--|--|--|-----------------|--|
| Noise filter Usage USmall UW/O W/O Select the filter as listed in 'frequency range' section.  Voltage pulse  Pulse sensing UC coupled UDC coupled Coupled (MAX Voltage across UDS - 50Vp-p (160V) UDS - 50Vp-p (160V) UDS - 50Vp-p (160V) UDS - 10Vp-p |  |  | STANDARD        | COMMENTS   |
| □Voltage pulse Pulse sensing □Capacitor coupled □DC c  |  |  |                 | T  |
| Pulse sensing  |  | □Large □Small □W/O   | W/O             | Select the filter as listed in 'frequency range' section.  |
| DC coupled   DC    |  | To a   |                 | T=   |
| (MAX_Voltage across   225_50Vp-p(50V)   the input terminals (the pulse amplitude with DC offset) reminant (the pulse amplitude with DC offset)   15_5Vp-p(5V)   15_5Vp-p(5V)   15_5Vp-p(5V)   10_5Vp-p(5V)   10_5Vp-p(5  | Pulse sensing                                |  | DC coupled      | Detecting level for the capacitor coupling must be 0V.   |
| DC offset 2  | (MAX. Voltage across                         | □25 - 50Vp-p(50V)<br>□10 - 25Vp-p(25V)<br>□5 - 10Vp-p(10V)<br>□1 - 5Vp-p(5V)<br>□0.5 - 1Vp-p(1V) | 1~5Vp-p         | Select the amplitude range so that the voltage measured across the input terminals (the pulse amplitude with DC offset) remains below the maximum limit indicated in parentheses. *2 |
| Detecting level  Detecting level between the liter as listed in 'frequency range' section.  Detecting level between the liter as listed in 'frequency range' section.  Detecting level between the liter as listed in 'frequency range' section.  Detecting level  Detecting level between limput waveform. Refer to 'AMPLITUDE RANGE' explained and loffset.  Noise filter  Detecting level  Detecting level between limput seven limput waveform. Refer to 'AMPLITUDE RANGE' explained and loffset.  Noise filter as listed in 'frequency range' section.  Detecting level  Detecting level between limput seven limited to 10 Hz max.  Detecting level or the mechanical contact input, the input frequer limited to 10 Hz max.  Detecting level or the mechanical contact input, the input frequer limited to 10 Hz max.  Detecting level or the limbur of samples to be averaged.  Detecting level frequency range limited to 10 Hz max.  Detecting level or the mechanical contact input, the input frequer limited to 10 Hz max.  Detecting level or the limit be selected fr  |  | • •  |                 | The information is important to accurately understand the type of input waysform. Refer to 'Amplotude range' explained above   |
| Noise filter   | DC offset*2                                  | V  | _               | p.s  |
| Drwo-wire current pulse Pulse sensing □Capacitor coupled □DC coupled couple coupled in the paranthe to paranthe ses. □DC coupled □DC coupled □DC coupled coup  | Detecting level                              | _  | _               | information on the pulse sensing type, pulse amplitude and DC  |
| Pulse sensing □Capacitor coupled □DC coup  |  | □Large □Small □W/O   | W/O             | Select the filter as listed in 'frequency range' section.  |
| Pulse amplitude 2 mAp-p — The information is important to accurately understand the tyl input waveform. Refer to 'AMPLITUDE RANGE' explained a mA — M-System will set to an appropriate value based on the information on the pulse sensing type, pulse amplitude and loffset.  Noise filter □ Large □ Small □ W/O W/O Select the filter as listed in 'frequency range' section.  □RS-422 line driver pulse  NPUT SETTING COMMON TO ALL INPUT TYPES  requency range □ 0-10Hz (Large) □ 0-10Hz (Small) □ 0-10Hz (Small) □ 0-10Hz (Without) □ 0-10Hz (Small) Noise filter is indicated in the parantheses.  Calibrated zero frequency (fz) Hz 100kHz Specify within the selected frequency range. (fs) Without Specify within the selected frequency range. (fs) Minimum span 10% of the max. selected frequency range required. For the mechanical contact input, only 0 – 10 Hz range is selectable.  OHZ Specify within the selected frequency range. (fs) Minimum span 10% of the max. selected frequency range required. For the mechanical contact input, the input frequer limited to 10 Hz max.  Cut-out % Disable Cut-out Selectable range: 0.00~100.00% or Disable Cut-out. fer Function □ Linear □ Special curve   Linear   For a Special curve, please provide with a conversion table. loving Ave.  |  |  |                 |  |
| Detecting level  Desection ling the value based on the information on the pulse sensing type, pulse amplitude and loffset.  Detecting level  Desection ling the value based on the information on the pulse sensing type, pulse amplitude and loffset.  Detecting level  Desection ling the value based on the information on the pulse sensing type, pulse amplitude and loffset.  Desection ling the value based on the information on the pulse sensing type, pulse amplitude and loffset.  Desection ling the value based on the information of the pulse amplitude and loffset.  Desection ling the value based on the information of the pulse amplitude and loffset.  Desection ling the value based on the information of the pulse amplitude and loffset.  Desection ling the value based on the information of the pulse amplitude and loffset.  Desection ling the value based on the information of the pulse amplitude and loffset.  Desection ling the value based on the information of the pulse amplitude and loffset.  Desection ling the value based on the information of the pulse amplitude and loffset.  Desection ling the value based on the i  | Pulse sensing                                |  | DC coupled      | Detecting level for the capacitor coupling must be 0V.   |
| Detecting level  | Pulse amplitude <sup>*2</sup>                | mAp-p  | _               | The information is important to accurately understand the type of  |
| INFOSTRETING COMMON TO ALL INPUT TYPES  Frequency range  □ 0 - 10Hz (Large) □ 0 - 100Hz (Small) □ 0 - 100Hz (Without) □ 0 - 100Hz (  | DC offset*2                                  | mA   | _               | Input wavelorm. Relet to Alvir Lit obe RANGE explained above   |
| □RS-422 line driver pulse  INPUT SETTING COMMON TO ALL INPUT TYPES  Frequency range □ 0 - 10Hz (Large) □ 0 - 10Hz (Small) □ 0 - 1kHz (Without) □ 0 - 10kHz (Without) □ 0 - 100kHz (Without) □ 0 - 10kHz (Specify within the selected frequency range. 0 Hz ≤ fz < fs  Calibrated zero frequency (fs)  Calibrated zero frequency (fs)  Hz  100kHz  Specify within the selected frequency range. fz < fs ≤ [max. selected frequency range] Minimum span 10% of the max. selected frequency range required. For the mechanical contact input, the input frequer limited to 10 Hz max.  Cut-out  Selectable range: 0.00~100.00% or Disable Cut-out.  Cut-out  Unimar  For a Special curve, please provide with a conversion table.  Moving Ave.  1 Specifies the number of samples to be averaged.  | Detecting level                              | _  | _               | information on the pulse sensing type, pulse amplitude and DC  |
| □RS-422 line driver pulse  INPUT SETTING COMMON TO ALL INPUT TYPES  requency range □0 - 10Hz (Large) □0 - 10Hz (Small) □0 - 1kHz (Without) □0 - 10kHz (Without) □0 - 100kHz (Without) □0 - 10kHz (Specify within the selected frequency range. 0 Hz ≤ fz < fs  Calibrated zero frequency (fs)  Calibrated zero frequency (fs)  The companies of the max selected frequency range are quired. For the mechanical contact input, the input frequency limited to 10 Hz max.  Cut-out  Selectable range: 0.00~100.00% or Disable Cut-out.  Selectable range: 0.00~100.00% or Disable Cut-out.  Linear For a Special curve, please provide with a conversion table.  Specifies the number of samples to be averaged.   | Noise filter                                 | □Large □Small □W/O   | W/O             | Select the filter as listed in 'frequency range' section.  |
| Selectable.  Noise filter is indicated in the parantheses.  Calibrated zero frequency (fz)  Calibrated zero frequency (fs)  C  | INPUT SETTING COMMON T                       |  | 0~100kHz        | For the mechanical contact input, only 0 – 10 Hz range is  |
| (fz)  Calibrated zero frequency (fs)  Hz  100kHz  Specify within the selected frequency range. fz < fs ≤ [max. selected frequency range] Minimum span 10% of the max. selected frequency range required. For the mechanical contact input, the input frequer limited to 10 Hz max.  Cut-out  Moving Ave.  Disable Cut-out Selectable range:0.00~100.00% or Disable Cut-out. For a Special curve, please provide with a conversion table. Specifies the number of samples to be averaged.   |  | □0 - 100Hz (Small) □0 - 1kHz (Without) □0 - 10kHz (Without) □0 - 100kHz <sup>13</sup> (Without)  |                 | selectable. Noise filter is indicated in the parantheses.  |
| (fs)    fz < fs ≤ [max. selected frequency range]   Minimum span 10% of the max. selected frequency range required. For the mechanical contact input, the input frequer limited to 10 Hz max.    Cut-out   |  | Hz   | 0Hz             |  |
| ffer Function ☐ Linear ☐ Special curve Linear For a Special curve, please provide with a conversion table.  In Specifies the number of samples to be averaged.   |  | Hz   | 100kHz          | fz < fs ≤ [max. selected frequency range]  Minimum span 10% of the max. selected frequency range required. For the mechanical contact input, the input frequency is                  |
| Moving Ave. 1 Specifies the number of samples to be averaged.  |  |  | Disable Cut-out |  |
|  | fer Function                                 | □Linear □Special curve   | Linear          | For a Special curve, please provide with a conversion table.   |
|  | Moving Ave.                                  |  | 1               | 1 .  |

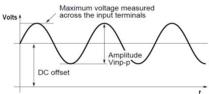
0.05 sec.

12V

Selectable range: 0.05~100sec.

Choose from the list to the left.

<sup>\*2</sup> Explanations of terms with using a sine waveform



<sup>\*3</sup> The maximum frequency range is 0 - 200kHz on M3LPA2.

Sampling time

Excitation voltage

\*1 Max. frequency limited to 50 kHz. □4V □8V □12V

## ■OUTPUT SETTING

| ITI               | ΞM          | SET VALUE | STANDARD  | COMMENTS   |
|-------------------|-------------|-----------|-----------|--|
| Output range      | Output 0%   |           | 4mA       | Choose from Table 5.   |
|                   | Output 100% |           | 20mA      |  |
| ■OTHER SETT       | INGS        |           |           |  |
| Configuration me  |             | □DIP SW   | /A:PC     | PC setting is usable only with M3Lx-x/A.                       |
| · ·               |             | □PC       | /B:DIP SW |  |
| Front control but | tton lock   | □Unlock   | Unlock    | PC Configuration is not disabled when the front control button |
|                   |             | □Lock     |           | function is locked.  |

Remark: The ex-factory setting as shown above can be changed when the power supply is turned on after the DIP switches have been re-configured.