

# ORDERING INFORMATION

# MODEL : M2EXV

## PLEASE FILL IN THIS SECTION



Model
Company
Name
P/O No.

## FACTORY USE ONLY



Job No.	Approved by (Sales office)
Ser No.	Issued by (Sales office)
Sales	Approved by (Factory)
	Set by (Factory)
Ser No.	

Specify the items you want to change.

Default setting will be used if not specified.

### ■ INPUT SETTING

ITEM	SET VALUE	DEFAULT VALUE	COMMENTS	Factory Internal check
Input range	<input type="checkbox"/> 0 to 50 mA DC <input type="checkbox"/> -1000 to +1000 mV DC <input type="checkbox"/> -10 to +10 V DC	0 to 50 mA DC	Choose among 3 types	<input type="checkbox"/>
0 % input setting		4.00 mA -1000.0 mV -10.000 V	Specify within settable range in the table 1.	<input type="checkbox"/>
100 % input setting		20.00 mA 1000.0 mV 10.000 V		
Filter time constant*1		0 sec.	Specify the range between 0 and 30 sec.	<input type="checkbox"/>

### ■ OUTPUT SETTING

ITEM	SET VALUE	DEFAULT VALUE	COMMENTS	Factory Internal check
Output range	<input type="checkbox"/> 0 to 20 mA DC <input type="checkbox"/> -5 to +5 V DC <input type="checkbox"/> -10 to +10 V DC	0 to 20 mA DC	Choose among 3 types	<input type="checkbox"/>
0 % output setting		4.000 mA -5.000 V -10.000 V	Specify within settable range in the table 2.	<input type="checkbox"/>
100 % output setting		20.000 mA 5.000 V 10.000 V		

\*1. Filter time constant

Set filter time constant of the first order lag filter. The first order lag filter is available with setting time. When '0' is set to this parameter, the first order lag filter is not available (Response time:  $\leq 0.5$  sec. (0  $\rightarrow$  90 %)). The first order lag filter is equivalent to general CR filter. The setting time constant is the time to follow until about 63 %, when input varies from 0 % to 100 %.

## ■ DISPLAY SETTING

ITEM	SET VALUE	DEFAULT VALUE	COMMENTS	Factory Internal check
0 % input scaling		0.00	Specify within the range between -99999 and 999999. Decimal point position can be set arbitrarily.	<input type="checkbox"/>
100 % input scaling		100.00	Specify within the range between -99999 and 999999. Decimal point position is same as 0 % input scaling.	<input type="checkbox"/>
Unit (INP Scaling)		%	Choose from the table 3, or specify from the table 4 'Settable characters' within 13 characters.	<input type="checkbox"/>
0 % output scaling		0.00	Specify the range between -99999 and 999999. Decimal point position can be set arbitrarily.	<input type="checkbox"/>
100 % output scaling		100.00	Specify the range between -99999 and 999999. Decimal point position is same as 0 % output scaling.	<input type="checkbox"/>
Unit (OUT Scaling)		%	Choose from the table 3, or specify from table 4 'Settable characters' within 13 characters.	<input type="checkbox"/>
Display setting	Upper: Lower:	Upper: INPUT Lower: PERCENT	Choose from the setting value in the table 5.	<input type="checkbox"/>
Brightness		4	Specify among 1 (darkest) to 4 (brightest).	<input type="checkbox"/>
Display timeout		10 min.	Specify the range from 0, 1 to 60 min. Set '0' to display 'always on'.	<input type="checkbox"/>

## ■ USER'S TABLE LINEARIZATION

ITEM	SET VALUE	DEFAULT VALUE	COMMENTS	Factory Internal check
User's table linearization	<input type="checkbox"/> Disable <input type="checkbox"/> Enable	Disable	Specify enable or disable. When enable, specify the table in the page 4 to 6.	<input type="checkbox"/>

**Table 1**

INPUT RANGE		MIN. SPAN	SETTABLE RANGE
Current input	0 to 50 mA DC	1.000 mA	0.000 to 20.000 mA
Voltage input	-1000 to +1000 mV DC	0.250 V	-5.000 to +5.000 V
	-10 to +10 V DC	1.000 V	-10.000 to +10.000 V

**Table 2**

OUTPUT RANGE		MIN. SPAN	SETTABLE RANGE
Current output	0 to 20 mA DC	1.000 mA	0.000 to 20.000 mA
Voltage output	-5 to +5 mV DC	0.250 V	-5.000 to +5.000 V
	-10 to +10 V DC	1.000 V	-10.000 to +10.000 V

**Table 3**

AVAILABLE UNITS
DC, AC, mV, V, kV, $\mu$ A, mA, A, kA, mW, W, kW, var, kvar, Mvar, VA, Hz, $\Omega$ , k $\Omega$ , M $\Omega$ , cm, mm, m, m/sec, mm/min, cm/min, m/min, m/h, m/s <sup>2</sup> , inch, L, L/s, L/min, L/h, m <sup>3</sup> , m <sup>3</sup> /sec, m <sup>3</sup> /min, m <sup>3</sup> /h, Nm <sup>3</sup> /h, N·m, N/m <sup>2</sup> , g, kg, kg/h, N, kN, Pa, kPa, Mpa, t, t/h, °C, °F, K, %RH, J, kJ, MJ, rpm, sec, min, min <sup>-1</sup> , pH, %, ppm, deg, (blank),

**Table 4**

SETTABLE CHARACTERS
0 - 9 A - Z a - z ! " # \$ % & ' ( ) = - + * ^   @ ` [ ] { } ; : < > ? _ . , /

**Table 5****Upper**

SETTING VALUE	DESCRIPTION
INPUT	Input engineering unit value
INPUT (Scaling)	Input scaling
PERCENT	Percent value*2
OUTPUT	Output engineering unit value
OUTPUT (Scaling)	Output scaling

**Lower**

SETTING VALUE	DESCRIPTION
INPUT	Input engineering unit value
INPUT (Scaling)	Input scaling
PERCENT	Percent value*2
OUTPUT	Output engineering unit value
OUTPUT (Scaling)	Output scaling
None	No display

\*2. Input percent value.

■ LINEARIZATION

Specify the input & output values and the units.

X[n] = Input Value of n-th (mA, mV, V, %)

Y[n] = Output Value of n-th (mA, mV, V, %)

-5% ≤ X[n] ≤ +105%, -5% ≤ Y[n] ≤ +105%, X[n] < X[n+1]

When scaling value is put, place the check mark on the check box.

The value is converted to %, and the value rounded off is entered to the unit.

Factory Internal check
<input type="checkbox"/>

n	X (UNIT: ) <input type="checkbox"/> Scaling value	Y (UNIT: ) <input type="checkbox"/> Scaling value	n	X (UNIT: )	Y (UNIT: )
001			026		
002			027		
003			028		
004			029		
005			030		
006			031		
007			032		
008			033		
009			034		
010			035		
011			036		
012			037		
013			038		
014			039		
015			040		
016			041		
017			042		
018			043		
019			044		
020			045		
021			046		
022			047		
023			048		
024			049		
025			050		

n	X (UNIT: )	Y (UNIT: )	n	X (UNIT: )	Y (UNIT: )
051			077		
052			078		
053			079		
054			080		
055			081		
056			082		
057			083		
058			084		
059			085		
060			086		
061			087		
062			088		
063			089		
064			090		
065			091		
066			092		
067			093		
068			094		
069			095		
070			096		
071			097		
072			098		
073			099		
074			100		
075			101		
076			102		

n	X (UNIT: )	Y (UNIT: )	n	X (UNIT: )	Y (UNIT: )
103			108		
104			109		
105			110		
106			111		
107					