

ORDERING INFORMATION

Model: M1EXV-1

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 Rep.	Approved by (Factory)
	Issued by (Factory)
	Ser No.

Specify the items you want to change.
Default setting will be used if not specified.

INPUT SETTING

PARAMETER	SET VALUE	DEFAULT VALUE	COMMENTS	Factory Internal check
Input 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 % input setting		4.000 mA -5.000 V -10.000 V	Specify within settable range in the table 1.	<input type="checkbox"/>
100 % input setting		20.000 mA 5.000 V 10.000 V		
Filter time constant*1		0 sec.	Specify the range between 0 and 30 sec.	<input type="checkbox"/>
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"/>
User's table linearization	<input type="checkbox"/> Enable <input type="checkbox"/> Disable	Disable	Specify enable or disable. Specify the table in the page 5 to 6.	<input type="checkbox"/>

*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: ≤ 0.5 sec. (0 - 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 %.

■ OUT1 OUTPUT SETTING

PARAMETER	SET VALUE	DEFAULT VALUE	COMMENTS	Factory Internal check
Chanel enable	<input type="checkbox"/> Enable <input type="checkbox"/> Disable	Enable	Specify enable or disable.	<input type="checkbox"/>
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		
User's table linearization	<input type="checkbox"/> Enable <input type="checkbox"/> Disable	Disable	Specify enable or disable. Specify the table in the page 7 to 8.	<input type="checkbox"/>

■ OUT2 OUTPUT SETTING

PARAMETER	SET VALUE	DEFAULT VALUE	COMMENTS	Factory Internal check
Chanel enable	<input type="checkbox"/> Enable <input type="checkbox"/> Disable	Enable	Specify enable or disable.	<input type="checkbox"/>
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		
User's table linearization	<input type="checkbox"/> Enable <input type="checkbox"/> Disable	Disable	Specify enable or disable. Specify the table in the page 9 to 10.	<input type="checkbox"/>

■ OUT3 OUTPUT SETTING

PARAMETER	SET VALUE	DEFAULT VALUE	COMMENTS	Factory Internal check
Chanel enable	<input type="checkbox"/> Enable <input type="checkbox"/> Disable	Enable	Specify enable or disable.	<input type="checkbox"/>
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		
User's table linearization	<input type="checkbox"/> Enable <input type="checkbox"/> Disable	Disable	Specify enable or disable. Specify the table in the page 11 to 12.	<input type="checkbox"/>

■ OUT4 OUTPUT SETTING

PARAMETER	SET VALUE	DEFAULT VALUE	COMMENTS	Factory Internal check
Chanel enable	<input type="checkbox"/> Enable <input type="checkbox"/> Disable	Enable	Specify enable or disable.	<input type="checkbox"/>
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		
User's table linearization	<input type="checkbox"/> Enable <input type="checkbox"/> Disable	Disable	Specify enable or disable. Specify the table in the page 13 to 14.	<input type="checkbox"/>

■ OTHER SETTING

PARAMETER	SET VALUE	DEFAULT VALUE	COMMENTS	Factory Internal check
Display1 setting	Upper: Lower:	Upper: INPUT Lower: OUTPUT 1	Choose from the setting value in the table 5.	<input type="checkbox"/>
Display2 setting	Upper: Lower:	Upper: INPUT Lower: OUTPUT 2	Choose from the setting value in the table 5.	<input type="checkbox"/>
Display3 setting	Upper: Lower:	Upper: INPUT Lower: OUTPUT 3	Choose from the setting value in the table 5.	<input type="checkbox"/>
Display4 setting	Upper: Lower:	Upper: INPUT Lower: OUTPUT 4	Choose from the setting value in the table 5.	<input type="checkbox"/>
Display change time		3 sec.	Specify the range from 0, 1 to 60 sec. Set to '0' when the display need not switch automatically.	<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"/>

Table 1

	INPUT RANGE	MIN. SPAN	SETTABLE RANGE
Current input	0 to 20 mA DC	1.000 mA	0.000 to 20.000 mA
Voltage input	-5 to +5 V 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 V 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, μ A, mA, A, kA, mW, W, kW, var, kvar, Mvar, VA, Hz, Ω , k Ω , M Ω , cm, mm, m, m/sec, mm/min, cm/min, m/min, m/h, m/s ² , inch, L, L/s, L/min, L/h, m ³ , m ³ /sec, m ³ /min, m ³ /h, Nm ³ /h, N-m, N/m ² , g, kg, kg/h, N, kN, Pa, kPa, Mpa, t, t/h, °C, °F, K, %RH, J, kJ, MJ, rpm, sec, min, min ⁻¹ , 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 1	OUT1 output engineering unit value
OUTPUT 2	OUT2 output engineering unit value
OUTPUT 3	OUT3 output engineering unit value
OUTPUT 4	OUT4 output engineering unit value
None*3	No display

Lower

SETTING VALUE	DESCRIPTION
INPUT	Input engineering unit value
INPUT (Scaling)	Input scaling
PERCENT	Percent value*2
OUTPUT 1	OUT1 output engineering unit value
OUTPUT 2	OUT2 output engineering unit value
OUTPUT 3	OUT3 output engineering unit value
OUTPUT 4	OUT4 output engineering unit value
None	No display

*2. The value displayed is the value converted into 0.00 to 100.00 % based on the input setting value.

*3. The upper part of 'Display1 setting' cannot be set to 'None'.

INPUT USER'S TABLE 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	Y	n		
	<input type="checkbox"/> Engineering value <input type="checkbox"/> Percent value <input type="checkbox"/> Scaling value	<input type="checkbox"/> Engineering value <input type="checkbox"/> Percent value <input type="checkbox"/> Scaling value			
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		

■ INPUT USER'S TABLE LINEARIZATION

051			081		
052			082		
053			083		
054			084		
055			085		
056			086		
057			087		
058			088		
059			089		
060			090		
061			091		
062			092		
063			093		
064			094		
065			095		
066			096		
067			097		
068			098		
069			099		
070			100		
071			101		
072			102		
073			103		
074			104		
075			105		
076			106		
077			107		
078			108		
079			109		
080			110		
			111		

OUT1 USER'S TABLE 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	Y	n		
	<input type="checkbox"/> Engineering value <input type="checkbox"/> Percent value <input type="checkbox"/> Scaling value	<input type="checkbox"/> Engineering value <input type="checkbox"/> Percent value <input type="checkbox"/> Scaling value			
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		

■ OUT1 USER'S TABLE LINEARIZATION

051			081		
052			082		
053			083		
054			084		
055			085		
056			086		
057			087		
058			088		
059			089		
060			090		
061			091		
062			092		
063			093		
064			094		
065			095		
066			096		
067			097		
068			098		
069			099		
070			100		
071			101		
072			102		
073			103		
074			104		
075			105		
076			106		
077			107		
078			108		
079			109		
080			110		
			111		

OUT2 USER'S TABLE 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	Y	n		
	<input type="checkbox"/> Engineering value <input type="checkbox"/> Percent value <input type="checkbox"/> Scaling value	<input type="checkbox"/> Engineering value <input type="checkbox"/> Percent value <input type="checkbox"/> Scaling value			
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		

■ OUT2 USER'S TABLE LINEARIZATION

051			081		
052			082		
053			083		
054			084		
055			085		
056			086		
057			087		
058			088		
059			089		
060			090		
061			091		
062			092		
063			093		
064			094		
065			095		
066			096		
067			097		
068			098		
069			099		
070			100		
071			101		
072			102		
073			103		
074			104		
075			105		
076			106		
077			107		
078			108		
079			109		
080			110		
			111		

OUT3 USER'S TABLE 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	Y	n		
	<input type="checkbox"/> Engineering value <input type="checkbox"/> Percent value <input type="checkbox"/> Scaling value	<input type="checkbox"/> Engineering value <input type="checkbox"/> Percent value <input type="checkbox"/> Scaling value			
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		

OUT3 USER'S TABLE LINEARIZATION

051			081		
052			082		
053			083		
054			084		
055			085		
056			086		
057			087		
058			088		
059			089		
060			090		
061			091		
062			092		
063			093		
064			094		
065			095		
066			096		
067			097		
068			098		
069			099		
070			100		
071			101		
072			102		
073			103		
074			104		
075			105		
076			106		
077			107		
078			108		
079			109		
080			110		
			111		

OUT4 USER'S TABLE 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	Y	n		
	<input type="checkbox"/> Engineering value <input type="checkbox"/> Percent value <input type="checkbox"/> Scaling value	<input type="checkbox"/> Engineering value <input type="checkbox"/> Percent value <input type="checkbox"/> Scaling value			
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		

■ OUT4 USER'S TABLE LINEARIZATION

051			081		
052			082		
053			083		
054			084		
055			085		
056			086		
057			087		
058			088		
059			089		
060			090		
061			091		
062			092		
063			093		
064			094		
065			095		
066			096		
067			097		
068			098		
069			099		
070			100		
071			101		
072			102		
073			103		
074			104		
075			105		
076			106		
077			107		
078			108		
079			109		
080			110		
			111		