Models M7EASV / M7EASDY

PC CONFIGURATOR SOFTWARE Model: M7EASCFG

Users Manual

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1. INTRODUCTION

1.1 GENERAL DESCRIPTION

The M7EASCFG is used to program parameters for models M7EASV DC Alarm and M7EASDY Two-wire Transmitter Alarm (referred hereunder as 'device'). The following major functions are available:

- Edit parameters online (connected to the device) in real time
- Edit parameters offline (not connected to the device)
- Download parameters to the device, upload parameters from the device
- · Save parameters as files, read parameters from files
- Compare parameters edited on the screen with the ones stored in the device

1.2 PC REQUIREMENTS

The following PC performance is required for adequate operation of the M7EASCFG.

PC	IBM PC compatible
Network port	COM port (RS-232-C) or USB port (COM1 through COM16)
OS	Windows 7 (32-bit, 64-bit), Windows 10 (32-bit, 64-bit)
	The software may not operate adequately in certain conditions.

A non-isolated PC Configurator Cable (model: MCN-CON or COP-US) is required to connect the device to the PC.

1.3 INSTALLING & UNINSTALLING THE PROGRAM

INSTALL

The program is provided as compressed archive. Decompress the archive and execute 'setup.exe' to start up the M7EASCFG installer program. Follow instructions on the Windows.

UNINSTALL

Open Control Panel > Add/Remove Programs. Select the M7EASCFG from the program list and click Delete button.

2. GETTING STARTED

2.1 STARTING THE M7EASCFG

Open Program > M-System > Configurator > M7EASV (or M7EASDY) to start up the M7EASCFG on the Windows PC. The following window appears on the screen.

nnect	Open File	e Sav	/e File		c	ompare	Upload	Dow	nioad		Japanese
nction Bloc	k										-
Innut	Input %	Input II	12	13	14	Alarm	100		Parameters		
mpor	mpuc zo	Scale	14	2.5		Common	cab		Name	Value	
50.000	100.000	1.000							Input type Moving average	0: 0 - 50mA DC None	
40.000	80.000	0.800			T						
30.000	60.000	0.600		l	l						
20.000	40.000	0.400		l							
10,000	20.000	0.200									
		_	_						Utilities		
0.000	0.000	0.000							Trend Graph		
0.00	0.0	0.0	1	-							
mA	%	mA		<u> </u>				-			

2.2 OPERATING MODES

Two operating modes are available when using the M7EASCFG: Online mode and Offline mode.

In the online mode, the M7EASCFG is connected to the device. Parameters can be edited while monitoring the device operation. New parameters are applied to the device at once.

In the offline mode, the M7EASCFG is not connected to the device. New parameter setting can be created, saved as files to be downloaded later. You can also open such files or upload from the device to edit and then download to the device again.

CONNECTING / DISCONNECTING THE DEVICE

The program's initial state is in offline mode.

- 1) Connect the device to the PC's COM port with the PC Configurator Cable and click [Connect] button at the left top of the screen.
- 2) Choose the COM port number to which the device is connected, and click [OK].
- 3) The device's present parameters are uploaded and shown on the screen.

COM Port

[Connect] button is now replaced with [Disconnect] button, the bargraphs on the screen show real time I/O status of the device.

		1					1		1	1			
sconnect	Open Fil	e	Sav	e File		0	Compare	Upload	Dov	inload			
unction Blo	:k					-			-				
*	1	Input	l	1.0			Alarm	1.00	Device	Parameters			
Inpuc	Input %	Scale	11	12	1.3	L4	Common	LCD	Info	Name		Value	
1000.000	100.000	30.00	0							Input type Moving averag	IB	1: -1000 - +1000m None	
800.000	- 80.000 -	80.00	0 0			_							
600.000	<u>60.000</u> -	60.00 50.00	0 0										
400.000	40.000	40.00	<u>°</u>	Π	ī	1							
	-	30.00	2							-			
200.000	20.000-	20.00	0	-						-			
		10.00	0							Utilities			
0.000	0.000	0.00								Trend G	raph		
500	50.02	45.01		-		-				-			
es.U	9/.	1900	-	-	-	-			-	-			

In order to go back to the offline mode, click [Disconnect] button.

2.3 BASIC OPERATIONS

2.3.1 SCREEN COMPONENT IDENTIFICATION

🧭 M7EASCF	G Version1.	。 (1)	(2)	(3)		(4) 🖂
Disconnect	Open File	Save File	Compare	Upload Dov	vnload	Japanese
Tanction Bloc	k I		1 1 1	1	Parameters	
Input	Input %	Input L1 L2 L3 Scale	L4 Alarm Common	LCD Device Info	Name	Value
1000.000	100.000	30.000			Input type	1: -1000 - +1000m
(5)	_	80.000	-		(6)	None
800.000	80.000	70.000	-			
600.000	60.000	60.000				
	-	50.000				
400.000	40.000	40.000				
	_	30.000			-	
200.000	20.000	20.000			-	
	-	10.000			Utilities Trend Cranh	1
0.000	0.000	0.000				
500	50.02	45.01			- (7)	
mV	%	/80C		J.		

(1) Open File / Save File

These buttons are used to read a parameter setting saved in files and to save edited ones as files.

(2) Compare

This button is used to compare edited parameters from actual setting. Clicking [Compare] button shows two sets of parameters: one presently edited on the screen and another uploaded from the connected device.

(3) Upload / Download

These buttons are used to read parameter setting in the device and to write one to the device.

(4) English / Japanese

This button is used to switch the display language. Clicking the button switches between English and Japanese.

The program starts up in English mode as initial state when the OS is other than Japanese version. You can switch to Japanese only when the OS supports Japanese language.

(5) Function Block

These buttons are used to choose Function Block and show parameters selectable in each block.

In online mode, the bargraphs below Function Block buttons show in real time conversion results at each block from Input to Output.

(6) Parameter

Shows all available parameters in the selected Function Block. Click Value cell to change. In online mode, new parameters are applied to the device immediately.

(7) Utility

Shows all available utility buttons in the selected Function Block.

2.3.2 READING PARAMETERS SAVED AS FILE

Clicking [Open File] calls up the Windows-standard Open dialog box. Select a parameter file to show a stored parameter setting.

Open					?×
Look jn:	M7E_Settin	gs	•	- 1 -	
My Recent Documents Desktop	M7E_setting	l.cfg 2.cfg			
) My Documents					
My Computer					
My Network	File name:	M7E_setting1.cfg		•	<u>O</u> pen
Places	Files of type:	Configuration File (*.cfg)		•	Cancel

In online mode, the parameters are automatically downloaded at the same time to the connected device.

2.3.3 SAVING PARAMETERS IN A FILE

Clicking [Save File] calls up the Windows-standard Save As dialog box. Enter a desired file name to File Name field and click [Save] to store a parameter setting.

Save As					?×
Save in:	M7E_Setting	gs	•	- 🗈 💣 📰-	
My Recent Documents Desktop	國 M7E_setting1	.cfg			
My Computer My Network Places	File <u>n</u> ame:	M7E_setting2		<u> </u>	<u>S</u> ave
	Save as type:	Configuration File (*.cfg)		•	Cancel

2.3.4 READING PARAMETERS FROM DEVICE (UPLOAD)

Clicking [Upload] starts reading parameters stored in the connected device to show them on the screen. Specify the COM port of the device and click [OK].

2.3.5 WRITING PARAMETERS TO DEVICE (DOWNLOAD)

Clicking [Download] starts writing parameters edited on the screen to the connected device. Specify the COM port of the device and click [OK].

2.3.6 COMPARING PARAMETERS

Parameters presently edited on the screen and those stored in the connected device can be compared side by side. Edited parameters could be from a file if you open one in advance, or another device if you upload one in advance.

Clicking [Compare] button starts reading parameters from the connected device. Parameters are compared and listed on the screen side by side. The rows showing differences between two sets of parameters are highlighted in red background. The total number of non-matching cases is mentioned at the bottom.

Function Block	Parameter Name	Edited Value	Device Value	^
Input %	Input calibratio	1000	1000	
Input Scale	Fine Adjust. 0%	0.00	0.00	
Input Scale	Fine Adjust. 10	1.000	1.000	
Input Scale	Decimal Point	2: XX.XX	2: XX.XX	
Input Scale	Scaling 0%	0.00	0.00	
Input Scale	Scaling 100%	90.00	90.00	
Input Scale	Scaling Unit	\80C	\80C	
.1	Alarm Value	20.00	20.00	
.1	Trip Operation	Lo	Lo	
.1	Hysteresis	1.00	1.00	
.1	Coil at Alarm	Deenergize	Energize	
.2	Alarm Value	30.00	30.00	
2	Trip Operation	Lo	Lo	
12	Hysteresis	1.00	1.00	
	Coil at Alarm	Deenergize	Energize	
L3	Alarm Value	70.00	70.00	
L3	Trip Operation	Hi	Hi	
L3	Hysteresis	1.00	1.00	
L3	Coil at Alarm	Energize	Energize	
L4	Alarm Value	80.00	80.00	
L4	Trip Operation	Hi	Hi	
L4	Hysteresis	1.00	1.00	
L4	Coil at Alarm	Energize	Energize	
Alarm Common	Power ON Dela	5	5	
Alarm Common	Alarm ON Delay	0	0	
Alarm Common	Latching	Disable	Disable	
LCD	Contrast	50	50	
LCD	Back Light	ON	ON	
LCD	Back Light Off T	10	10	~

2.3.7 CHANGING PARAMETERS

Choose a Function Block to show all available parameters in the list to the right. Click Value cell to change.

For example, when you want to change moving average, choose Input function block and click Value cell for Moving average parameter. Then an arrow appears to show you the pulled-down menu list. Choose one from the list.

function block and click Value cell for Input calibration 0%. Then an edit box appears in the cell. Enter a desired value and press Enter key on the

Name	Value
Input type	1: -1000 - +1000m
Moving average	None
	None
	4samples
	8samples

Another example is to change the 0% input calibration. Choose Input % Parameters

Name	Value	
Input calibration 0%	0.00	
Input calibration 100%	50.00	10

2.3.8 UTILITY

keyboard.

Utility functions are available to help changing parameters and to monitor the device operation on a trend graph.

Choose a Function Block to show all available Utility functions.

Some utility functions affect the device operation immediately, others call up dialog boxes to interface with the user. For detailed explanations, please refer to Section "4. FUNCTION BLOCKS".

2.3.9 TREND GRAPH

Function Blocks which are used to convert one value to another such as Input have Trend Graph function. The trend is recorded and displayed in 0.5 seconds intervals.



Click [Start] to start recording and displaying in real time.

Click [Stop] to stop monitoring, and the recorded trend graph can be studied more closely by scrolling and enlarging the screen:

Mouse	Screen
Press left mouse button and drag	Scrolls the screen to all directions.
Press right mouse button and drag	Forms an area on the screen to enlarge and fit it to the full-screen area when the mouse button is released.
Double-click left mouse button	Display range is reduced by half (trend curve is zoomed in).
Double-click right mouse button	Display range is doubled (trend curve is zoomed out).

[Print] is available only when the monitoring is stopped by [Stop] button. Click [Print] to print the trend graph presently displayed on the screen.

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3. HOW TO SETUP I/O (EXAMPLE)

Basic setup procedure including the input range setting and the alarm setting is as in the following.

Values as shown below are used as example:

Factory setting:	4 – 20 mA DC input, Dual SPDT relay output
New setting	
Input:	0 – 50 mA DC
Display scale:	0.0 - 100.0
Alarm setting:	L1 = Lo trip at 10.0, L2 = Hi trip at 80.0.

3.1 INPUT RANGE & ALARM SETTING

3.1.1 UPLOADING SETTING FROM THE DEVICE

Start up the M7EASCFG software and click [Upload] button. Choose the COM port to which the device is connected and click [OK]. Present parameter setting is uploaded and displayed on the screen. Now you can change the parameters.

3.1.2 INPUT RANGE

Click [Input %] Function Block. Enter the scaled 0% and 100% range values. Use the same engineering unit as for the type.

For 0 - 50 mA DC input, set 0.00 to '0% input' and 50.00 to '100% input.'

3.1.3 DISPLAY SCALE RANGE

Click [Input Scale] Function Block.

First, choose '1 : XXX.X' for 'Decimal Point.'

Then, set 0.0 to 'Scaling 0%' and 100.0 to 'Scaling 100%.'

3.1.4 ALARM SETTING

Click [L1] Function Block to specify the Lo alarm trip. Set 10.0 to 'Alarm Value' and choose 'Lo' for 'Trip Operation.' Then, click [L2] Function Block to specify the Hi alarm trip. Set 80.0 to 'Alarm Value' and choose 'Hi' for 'Trip Operation.'

3.1.5 DOWNLOADING SETTING TO THE DEVICE

Click [Download] button. Choose the COM port to which the device is connected and click [OK]. The new parameter setting edited on the screen is downloaded to the device.

3.2 OTHER SETTING

The device has more variety of functions than explained in the previous sections, including moving average setting and hysteresis. Basic procedure is mostly the same as the above example. For detailed explanations, please refer to Section "4. FUNCTION BLOCKS".

4. FUNCTION BLOCKS

4.1 GENERAL DESCRIPTIONS

The M7EASV/M7EASDY performs several internal conversion processes before supplying the output signals. Each conversion process is called 'Function Block.' The M7EASV/M7EASDY has nine (9) Function Blocks to perform conversions from input to output.



Each block is connected in series from Input to Input Scale. DC voltage/current supplied at the input terminals is provided to Input Function Block, converted and transferred from block to block in turn, and distributed to four blocks which perform alarm functions. Each result is supplied to the output terminals through Alarm Common Function Block.

Each block from Input to Input Scale stores its particular conversion results. User can visually confirm each block's conversion function by referring to these results. For example, Input Function Block stores actual engineering unit value (V or mA).

Parameters listed to right side of the screen affect the conversion results, i.e. the device's conversion characteristics can be changed by setting up these parameters.

Basic functions of each Function Block are listed as below:

(1) Input

This block converts the input voltage/current into the internal digital data.

(2) Input %

Scales the input data to 0 to 100% range. Choose actual device's input range (e.g.: 1 to 5 V DC) in this block.

(3) Input Scale

Scales the input % data to an engineering unit range used to display on the LCD.

(4) L1 through L4

Compares the input scale value with respective trip types and setpoints.

(5) Alarm Common

Determines output alarm signals at the external L1 ... L4 terminals.

(6) LCD

Specifies the LCD related parameters. This block is independent from others.

4.2 INPUT

This block converts the input voltage/current into the internal digital data.

Parameter

Name	Explanations
Input type	This parameter is determined by the M7EASV's model suffix code, and thus not se- lectable on this software program, except when a new file is created offline: 0 : 0 - 50 mA DC
	1 : -1000 - +1000 mV DC
	2 : -10 - +10 V DC
	The input type is fixed at 0 - 20 mA DC for the M7EASDY.
Moving average	Moving average filter is applicable to the input signal in order to eliminate input spikes. Number of samples are selectable from: None, 4 samples, 8 samples, 16 samples and 32 samples.

Utility

Stifty	
Name	Explanations
Trend graph	Shows the trend graph of Input Value.

4.3 INPUT %

Scales the input data to 0 to 100% range. Operational range is -7.5 to +107.5%. Input signals exceeding the limits are rounded to -7.5% and +107.5% respectively .

Parameter

Name	Explanations			
Input calibration 0%	Enter the engineering unit value equivalent to 0% input. For example, entering -1.000 with the input type ± 10 V means that -1.000 V is converted as 0% input, i.e. 0% input equals to -1.000 V. (Set to input 0% < input 100% (input 100% – input 0% ≥ minimum span))			
Input calibration 100%	Enter the engineering unit value equivalent to 100% input. For example, entering 5.000 with the input type ± 10 V means that 5.000 V is converted as 100% input, i.e. 100% input equals to 5.000 V. (Set to input 0% < input 100% (input 100% – input 0% ≥ minimum span))			
Low cut point	(M7EASDY only) Input signals below the low-cut point is forcibly handled as 0%. The low-cut point has a hysteresis of 0.2%. When the input signal increases, the point is exactly at the set- point, though when the signal decreases, the point is at the setpoint minus 0.2%. With the square root extraction setting, the signal is handled linearly below the setpoint.			



Utility

,		
Name	Explanations	
Trend graph	Shows the trend graph of Input %.	

4.4 INPUT SCALE

Scales input % data into an engineering unit scale range.

_	
Paramet	ter

Name	Explanation	S										
Fine adj. 0%/100%	Input % data can be finely adjusted before it is converted into a scaled range. [Input data supplied to scaling] = ([Input %] + [Fine Adj. 0%]) x [Fine Adj. 100%] -99.99 to +99.99% adjustable for the zero bias, 0.000 to 9.999 adjustable for the span gain.											
Decimal point	Enter the number of decimal places for the display scale, from 0 to 3. Internal data is stored as integer within -9999 to 9999. This decimal point position is simply applied for setting and displaying in the scaled range. For example, 1000 is displayed as 1000 with the decimal point position set to 0, as 10.00 with that set to 2. This setting is used to change the display range, does not affect alarm trip operation.											
Scaling 0%	Enter the low that the 0% i (Set to scalin	Enter the lower range display value for 0% input. For example, setting -1.000 means that the 0% input value is converted into -1.000. (Set to scaling 0% < scaling 100%)										
Scaling 100%	Enter the up that the 100% (Set to scalin	ber rang % input v ig 0% <	e displ /alue is scaling	ay val s conve g 100%	ue for 1 erted ir %)	100% i nto 5.0	nput. I 00.	For exa	ample,	setting	5.00) means
Scaling unit	Enter the eng *Special cha window, thes below. For e	Enter the engineering unit. ASCII code plus special characters (10 types)* are usable. *Special characters are displayed correctly only on the device LCD. On this software window, these characters are represented as ' \ ' plus two-digit numbers as indicated below. For example, enter '\80C' for '°C.'										
	Code	20	80	81	82	83	84	85	86	87 	88	_
	Character	Space		ł	2	3	·	Ω	μ	I	\checkmark	
	To make no s	scaling,	set a c	haract	er of s	oace.						
Linearizer	(M7EASDY of Choose one Linea	only) of the fo r	ollowing : Input	g I/O c is pro	haracte portion	eristics ally co	nverte	d into 1	the sca	aling va	alues.	
	Sqrt: Input is square-root extracted into the scaling values.User Table: Input is linearized by using the user table specifying relationship between Input % (X) and Output % (Y).											
X[0], Y[0] X[127], Y[127]	(M7EASDY only) Specify the calibration points for User Table linearization. Reverse setting is available. The output is scaled to Y value for each X (Input %) value. Data between two points are linearly approximated. When there is only one point for reference (data out of the table range), the closest Y value is used.											
	+100% Y05 Y04 J02 Y03 Y03 Y02 Y03 Y02 Y03 Y02 Y03 Y02 Y03 Y02 Y03 Y03 Y04 Y05 +115%											

Name	Explanations
Trend graph	Shows the trend graph for the input scale range.
Table File	Linearization tables are created and saved as files.
	Clicking [Table File] button opens the Table File window.



The graph shows the presently edited table. X axis represents Input %, while Y axis represents Output %.

Click [Load] in this window to show a pre-defined table data.

Click [Save] in this window to save the edited table data as files.

Click [OK] to apply the edited table data.

Click [Cancel] to quit the window without applying the edited table data.

4.5 L1 through L4

Compares the input scale value with respective trip types and setpoints.

Parameter							
Name	Explanations						
Alarm value	Enter the threshold value in engineering unit. Selectable from -9999 to +9999.						
Trip operation	Specify either Hi	Specify either Hi alarm trip or Lo alarm trip.					
Hysteresis	Enter the hystere input span. Once below (for Hi trip) values.	Enter the hysteresis (deadband) value in engineering unit. Selectable within the scaled input span. Once an alarm is tripped, it is not reset until the input signal again goes below (for Hi trip) or above (for Lo trip) the threshold by the hysteresis (deadband) values.					
Coil at Alarm	The relay coil can be energized or de-energized when the alarm is tripped. Re tact status in various operating conditions according to this setting is as shown					ay con- below:	
		N.O. 0	Contact	N.C. C	Contact		
	Conditions	Coil Energized	Coil De-energized	Coil Energized	Coil De-energized		
	Alarm	Closed	Open	Open	Closed		
	Normal	Open	Closed	Closed	Open		
	PowerOFF	Open	Open	Closed	Closed		
Utility							
Name	Explanations						

The output relay contact can be manually turned on and off regardless of the input

4.6 ALARM COMMON

Alarm test

Determines output alarm signals at the external L1 ... L4 terminals.

signal for testing.

Parameter

Name	Explanations
Power ON delay timer	Alarm trip operations are cancelled for the preset time period after the power has been supplied to the unit and the LCD's initial view has been displayed. Selectable from 0 to 99 seconds.
Alarm ON delay timer	An alarm relay does not trip unless its alarm condition is maintained for the preset time period. The alarm ON delay time can be selectable from 0 to 999 seconds independently for each setpoint.
Latching	A latching alarm relay does not reset once it has been tripped, even when the signal goes out of the alarm range. In order to reset, turn off the power supply to the unit, or disable the latching setting.

Utility

None available

4.7 LCD

Specifies the LCD related parameters. This block is independent from others.

Name	Explanations				
Contrast	Specify within a range from 0 (lowest) to 100 (highest).				
Back light	Three backlight modes (orange backlight) are available:				
	On	The backlight is always On.			
	Off	The backlight is always Off.			
	Off Timer	The backlight automatically turns off after the preset time if the front control buttons remain untouched.			
	Red backlight turns	s on in alarm conditions regardless of the above setting.			
Back light OFF time	Specifies a time for the backlight to be turned off when the Off Timer is selected. Enter a value in seconds between 1 and 3600.				

Utility

None available

4.8 DEVICE INFO

Device information is available for reference while the device is connected online. This button is not usable while other functions such as Save File, Upload/Download, Compare, are activated.

Namo	Evaluations
Indille	Explanations
Model	Model number of the device
Firmware	Firmware revision number of the device
Serial	Serial number of the device
Tag No.	Tag name. This parameter is the only selectable one among Device Info.
	Max. 10 alphanumerical characters. Characters exceeding this limit are ignored.
	The usable characters are the same with Scaling unit. Please refer to Section "4.4 INPUT SCALE".

Parameter