Digital Display (14 mm)

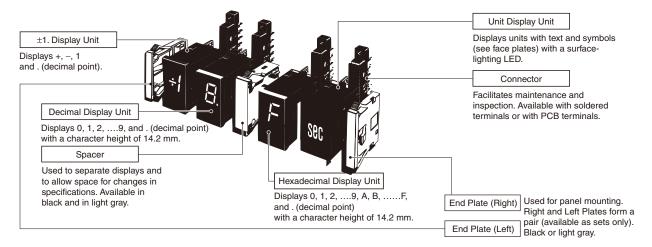
New Models with Blanking Function Added to the Series

- Single-color (red or green) and two-color (red or green selectable) displays with a character height of 14 mm are available for a variety of applications and locations.
- Miniature design with a 43-mm depth is perfect for saving space in equipment and devices.
- Wide-range power supply from 12 to 24 VDC.
- Negative sign (-) display with signal codes is possible for Decimal-display Models.
- Models with zero suppression function available.



Model Configuration

■ Unit Configuration



Ordering Information

■ List of Models

Display	ay Display Type		Mo	del
contents	color		Model with Zero Suppression (See note 1.)	Model with Blanking (See note 2.)
±1	Red	Positive		M7E-01BRP2
10 A		Negative		M7E-01BRN2
		Dynamic output		M7E-01BRD2
+1	Green	Positive		M7E-01BGP2
		Negative		M7E-01BGN2
		Dynamic output		M7E-01BGD2
Decimal	Red	Positive	M7E-01DRP2	M7E-01DRP2-B
<i>6</i>		Negative	M7E-01DRN2	M7E-01DRN2-B
		Dynamic output	M7E-01DRD2	M7E-01DRD2-B
8. 1,2	Green	Positive	M7E-01DGP2	M7E-01DGP2-B
		Negative	M7E-01DGN2	M7E-01DGN2-B
		Dynamic output	M7E-01DGD2	M7E-01DGD2-B
	Red/green (two colors)	Negative	M7E-01DRGN2	M7E-01DRGN2-B
Hexadeci-	Red	Positive	M7E-01HRP2	M7E-01HRP2-B
mal		Negative	M7E-01HRN2	M7E-01HRN2-B
	Green	Positive	M7E-01HGP2	M7E-01HGP2-B
F		Negative	M7E-01HGN2	M7E-01HGN2-B

Display contents	Display color	Logic	Model
Unit	Red		M7E-01UR2-□ (See note 3.)
Sec	Green		M7E-01UG2-□ (See note 3.)

■ Accessories (Order Separately)

End Plate

Case color	Item	Model
Light gray		M7E-012M
Black		M7E-012M-1

Note: The Right and Left Plates form a pair.

Spacer

Case color	Item	Model
Light gray		M7E-012PA
Black		M7E-012PA-1

Connectable PLCs

M	M7E model		PLC output method			
Display	Type	Static	Dynamic			
contents		PNP output	NPN output	output		
±1, decimal	Positive	0	Δ	Δ		
decimai	Negative	×	0	×		
	Dynamic output	×	×	0		
Hexa- decimal	Positive	0	Δ	Δ		
decimai	Negative	×	0	×		
Unit		O (only	voltage in	nposed)		

- O: Connectable
- ×: Not connectable
- △: Connectable (See note.)

Note: Connectable but an external resistor is required and only 24 VDC must be supplied.

Refer to External Connections on page 9 and 10 for details.

- **Note: 1.** Models with zero suppression are blank only when the display is $\mathcal Q$ and the decimal is OFF by wiring as shown on page 12.
 - 2. Models with blanking enable turning OFF a user-specified display (\square to \square , \square to \square) by inputting a signal to the blank input terminal.
 - 3. The symbol in the box (\Box) indicates the code for the display contents. Refer to page 13.

Connector

Te	erminal	Model
Solder terminal	Attached the state of the state	NRT-C
Solder terminal	UP CONTROL OF THE PROPERTY OF	NRT-CN
PCB terminal	At the thirty of the second	NRT-CP

Mother Board

Туре	Number of digits	Model	
Static	4	M7E-01MB4-S2	
Static	3	M7E-01MB3-S2	
Static	2	M7E-01MB2-S2	

Note: Refer to M7E Mother Board for Display Units (Character Height: 14 mm) for details.

Specifications

■ Ratings

Rated power supply		Wide range from 12 to 24 VDC		
Allowable voltage fluctuation range		90% to 110% of rated voltage		
Current consumption (per Display Unit)		Red LED:	35 mA max. at 24 VDC 60 mA max. at 12 VDC	
		Greed LED:	40 mA max. at 24 VDC 75 mA max. at 12 VDC	
		Red/green LED: 45 mA max. at 24 V 90 mA max. at 12 V		
Input level	Positive logic	High: 9.6 V to power supply voltage Low: 0 to 3 V		
" "		High: 4 V to power supply voltage Low: 0 to 1.5 V		
	Dynamic output	tput High: 4 V to power supply voltage Low: 0 to 1.5 V		
Ambient temperature		Operating: -10°C to 55°C (with no icing) Storage: -25°C to 70°C (with no icing)		
Ambient humidity		Operating: 35% to 85% (with no condensation)		

■ Characteristics

Insulation resistance	100 M Ω min. at 500 VDC (between each terminal and mounting panel)		
Dielectric strength	500 VAC at 50/60 Hz for 1 minute (between each terminal and mounting panel)		
Noise immunity	Power terminal: ±500 V		
(See note 2.)	Input terminal: ±500 V (normal mode) ±1,500 V (common mode)		
Vibration resistance	Destruction: 10 to 55 Hz, 0.75-mm double amplitude		
Shock resistance	Destruction: 300 m/s ²		
Degree of protection	IEC IP40 (portion on panel surface)		
Compatible connector	OMRON NRT-C/NRT-CN/NRT-CP		

Note: 1. The above values are initial values.

2. Impulse conditions

Rise time: 1 ns + 10% max. Pulse width: 100 ms, 1 μs

Polarity: Positive, negative, asynchronous to power

frequency, 100-Hz repeat frequency.

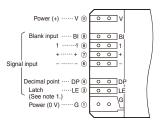
Installation

■ Terminal Arrangements and Functions

Terminal Arrangement

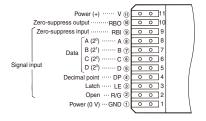
Note: The circled numbers are the connector pin numbers (NRT- \square).

±1. Display Unit M7E-01B□□2

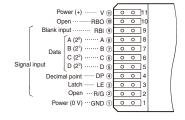


Decimal/Hexadecimal Display Unit (Single Color)

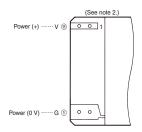
Models with Zero Suppression M7E-01D□□2/M7E-01H□□2



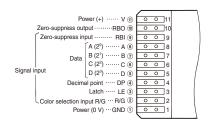
Models with Blanking M7E-01D□□2-B/M7E-01H□□2-B



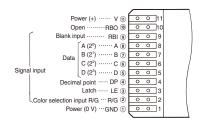
Unit Display Unit M7E-01U□2-□



Decimal Display Unit (Two Colors)
Models with Zero Suppression
M7E-01DRGN2



Models with Blanking M7E-01DRGN2-B



- Note: 1. The latch terminal on ±1. Display Units is provided only on Dynamic Output Models.
 - 2. The terminal numbers of the Unit Display Unit are different from the terminal numbers of the connector.

Terminal Functions

Ter-	Name	Function				
minal sym-	Desimal/Hayadasimal Display Unit			± Display Unit		
bol		Models with Zero Suppression	Models with Blanking			
V	Power supply	Positive power supply	input terminal			
RBO	Control output	Zero-suppress output (See note 1.)				
RBI	Control input	Zero-suppress output (See note 1.)	Blanking input (Turns OFF all the displays including decimal point.)			
BI	Control input			Blanking input (Turns OFF all the displays including decimal point.)		
A B C D	Data inputs	A (20) B (21) C (22) D (23) Applicable to Decimal/ Hexadecimal Display Unit -Displays a digit or symbol corresponding to the value of the binary code signal. -Decimal display uses 0 to 9; nothing will be displayed for higher values.				
1 + -	Data inputs			Applicable to ±1. Display Unit only For each input terminal, the input of a signal causes a display to light.		
DP	Data inputs	The decimal point lights.				
LE	Control input	Latch input The immediately preceding display condition is retained.				
R/G	Control input		Color selection input (See note 2.) Set low for green display and high for red display.			
G	Power supply	0-V power-supply (gro	und) input terminal (GN	D)		

Note: 1. Refer to the input code table for RBO and RBI control.

2. Applicable to the M7E-01DRGN2 and -01DRGN2-B only.

■ Input Codes

Models with Positive or Negative Logic

±1. Display Unit

Positive Logic (M7E-01BRP2/M7E-01BGP2)

	Input signal					Display
Connector pin No.	9	7	6	8	4	conditions
Terminal symbol	ВІ	+	=	1	DP	
Input signals	L	L	L	L	L	Blank
	L	Η	L	L	L	+
	L	L	Н	L	L	-
	L	L	L	Н	L	1
	L.	L	L	L	Н	•
	Н	*	*	*	*	Blank (See note.)

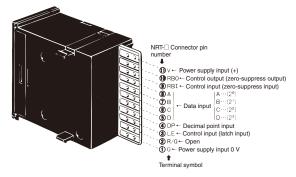
Note: BI takes precedence over any input signal.

Unit Display Unit

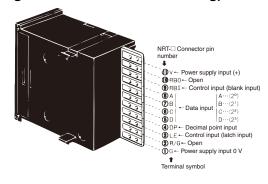
This display lights when voltage is applied to the power supply terminals (V and G).

V-G terminals	Display
Open circuit	Blank
Voltage applied	Lit

Decimal/Hexadecimal Display Unit (Single-color Models with Zero Suppression)



Decimal/Hexadecimal Display Unit (Single-color Model with Blanking)



Negative Logic (M7E-01BRN2/M7E-01BGN2)

		In	Display			
Connector pin No.	9	7	6	8	4	conditions
Terminal symbol	BI	+	-	1	DP	
Input signals	Н	Н	Н	Н	Н	Blank
	Н	L	Н	Н	Н	+
	Н	Н	L	Н	Н	-
	Н	Н	Н	L	Н	1
	Н	Н	Н	Н	L	
	L	*	*	*	*	Blank (See note.)

Note: BI takes precedence over any input signal.

^{*} Either high or low.

^{*} Either high or low.

Decimal/Hexadecimal Display Unit

Models with Zero Suppression

Positive logic (M7E-01DRP2/M7E-01DGP2/M7E-01HRP2/M7E-01HGP2)

				Inpu	it			Out- put	Display condition			
Connector pin No.	3	5	6	7	8	4	9	10				
Terminal number	3	5	6	7	8	4	9	10				
Terminal symbol	LE	D	С	В	A	DP	RBI	RBO	Decimal	Hexadeci- mal		
Input	L	L	L	L	L	L	L	L		0		
signals	L	L	L	L	Н	L	*	L		1		
	L	L	L	Н	L	L	*	L		2		
	L	L	L	Ι	Η	L	*	L		3		
	L	L	Н	L	L	L	*	L		۲		
	L	L	Η	L	Н	L	*	L		5		
	L	L	Н	Н	L	L	*	L		8		
	L	L	Н	Н	Н	L	*	L		7		
	L	Н	L	L	L	L	*	L		8		
	L	Н	L	L	Н	L	*	L		9		
	L	Н	L	Н	L	L	*	L	-	R		
	L	Н	L	Н	Н	L	*	L	Blank	ь		
	L	Н	Н	L	L	L	*	L	Blank	Ε		
	L	Н	Н	L	Н	L	*	L	Blank	В		
	L	Н	Н	Н	L	L	*	L	Blank	Ε		
	L	Н	Н	Н	Н	L	*	L	Blank	F		
	L	*	*	*	*	Н	*	L		•		
	*	L	L	L	L	L	Н	Н	Blank (S	See note.)		
	Н	*	*	*	*	*	*	*	Retains the display conditions of A through D and DP terminals before LE goes high. RBI is not related.			

Note: The display will go blank when the data input is "0" and the DP is OFF.

Negative logic (M7E-01DRN2/M7E-01DGN2/M7E-01DRSN2/M7E-01HRN2/M7E-01HGN2)

				Inpu	it			Out- put	Display condition			
Connector pin No.	3	5	6	7	8	4	9	10				
Terminal number	3	5	6	7	8	4	9	10				
Terminal symbol	LE	D	С	В	Α	DP	RBI	RBO	Decimal	Hexadec- imal		
Input	Н	Н	Н	Н	Н	Н	Ι	Н		0		
signals	Н	Η	Н	Н	L	Н	*	Н		1		
	Н	Η	Н	L	Н	Н	*	Н		2		
	Н	Ι	Н	L	L	Н	*	Н		3		
	Н	Н	L	Н	Н	Н	*	Н		4		
	Н	Ι	L	Н	L	Н	*	Н		5		
	Н	Н	L	L	Н	Н	*	Н		5		
	Н	Η	L	L	L	Н	*	Н		7		
	Н	L	Н	Н	Н	Н	*	Н		8		
	Н	L	Н	Н	L	Н	*	Н		9		
	Н	L	Н	L	Н	Н	*	Н	-	R		
	Н	L	Н	L	L	Н	*	Н	Blank	9		
	Н	L	L	Н	Н	Н	*	Н	Blank	Ε		
	Н	L	L	Н	L	Н	*	Н	Blank	В		
	Н	L	L	L	Н	Н	*	Н	Blank	E		
	Н	L	L	L	L	Н	*	Н	Blank	۶		
	Н	*	*	*	*	L	*	Н				
	*	Ι	Н	Н	Н	Н	L	L	Blank (S	See note.)		
	L	*	*	*	*	*	*	*		s of A I, DP and nals before ow. RBI is		

Note: The display will go blank when the data input is "0" and the DP is OFF.

^{*} Either high or low

^{*} Either high or low

Models with Blanking

Positive logic (M7E-01DRP2-B/M7E-01DGP2-B/M7E-01HRP2-B/M7E-01HGP2-B)

			ı	nput	Display co	ndition			
Connector pin No.	3	9	(5)	6	7	8	4		
Terminal number	3	9	5	6	7	8	4		
Terminal symbol	LE	RBI	D	С	В	Α	DP	Decimal	Hexa- decimal
Input	L	L	L	L	L	L	L	0	
signals	L	L	L	L	L	Н	L	1	
	L	L	L	L	Н	L	L	2	
	L	L	L	L	Н	Н	L	3	
	L	L	L	Н	L	L	L	ч	
	L	L	L	Н	L	Н	L	5	
	L	L	L	Н	Н	L	L	5	
	L	L	L	Н	Н	Н	L	7	
	L	L	Н	L	L	L	L	8	
	L	L	Н	L	L	Н	L	9	
	L	L	Н	L	Н	L	L	-	Я
	L	L	Н	L	Н	Н	L	Blank	ь
	L	L	Н	Н	L	L	L	Blank	Ε
	L	L	Н	Н	L	Н	L	Blank	d
	L	L	Н	Н	Н	L	L	Blank	Ε
	L	L	Н	Н	Н	Н	L	Blank	F
	*	L	*	*	*	*	Н		
	*	Н	*	*	*	*	*	Blank (See	note.)
	Н	L	*	*	*	*	*	Retains the dis conditions of A terminals befor high. DP is not	e LE goes

Note: RBI takes precedence over any input signal.

Negative logic (M7E-01DRN2-B/M7E-01DGN2-B/M7E-01DRGN2-B/M7E-01HRN2-B/M7E-01HGN2-B)

	Input Display condit							ndition	
Connector pin No.	3	9	5	6	7	8	4		
Terminal number	3	9	5	6	7	8	4		
Terminal symbol	LE	RBI	D	С	В	Α	DP	Decimal	Hexa- decimal
Input	Н	Н	Н	Н	Н	Н	Н	0	
signals	Н	Н	Н	Н	Н	L	Н	1	
	Н	Н	Н	Н	L	Н	Н	2	
	Н	Н	Н	Н	L	L	Н	3	
	Н	Н	Н	L	Н	Н	Н	ч	
	Н	Н	Н	L	Н	L	Н	5	
	Н	Н	Н	L	L	Н	Н	5	
	Н	Н	Н	L	L	L	Н	7	
	Н	Н	L	Н	Н	Н	Н	8	
	Н	Н	L	Н	Н	L	Н	9	
	Н	Н	L	Н	L	Н	Н	-	Я
	Н	Н	L	Н	L	L	Н	Blank	Ь
	Н	Н	L	L	Н	Н	Н	Blank	Ε
	Н	Н	L	L	Н	L	Н	Blank	d
	Н	Н	L	L	L	Н	Н	Blank	Ε
	Н	Н	L	L	L	L	Н	Blank	۶
	*	Н	*	*	*	*	L		
	*	L	*	*	*	*	*	Blank (See	note.)
	L	Н	*	*	*	*	*	Retains the dis conditions of A and R/G termin LE goes low. D related.	through D, als before

Note: RBI takes precedence over any input signal.

Models with Dynamic Outputs

±1. Display Unit

(M7E-01BRD2/M7E-01BGD2)

			Inp	out			Display condition
Connector pin No.	3	9	7	6	8	4	
Terminal symbol	LE	BI	+	_	1	DP	
Input	L	Н	L	L	L	Н	Blank
signals	L	Н	Н	L	L	Н	+
	L	Н	L	Н	L	Н	-
	L	Н	L	L	Н	Н	1
	*	Н	*	*	*	L	
	*	L	*	*	*	*	Blank (See note.)
	H	Н	*	*	*	*	Retains the display conditions of +, -, and 1 before LE goes high. DP is not related.

Note: BI takes precedence over any input signal.

^{*} Either high or low

^{*} Either high or low

^{*} Either high or low

Decimal Display Unit

Models with Zero Suppression (M7E-01DRD2/M7E-01DGD2)

				Inpu	ıt			Out- put	Display condition
Connector pin No.	3	5	6	7	8	4	9	10	
Terminal number	3	5	6	7	8	4	9	10	
Terminal symbol	LE	D	С	В	A	DP	RBI	RBO	
Input	L	L	L	L	L	Н	L	L	🛭 (See note 1.)
signals	L	L	L	L	Н	Н	*	L	1
	L	L	L	Н	L	Н	*	L	2
	L	L	L	Н	Н	Н	*	L	3
	L	L	Н	L	L	Η	*	L	۲
	L	L	Н	L	Н	Н	*	L	5
	L	L	Н	Н	L	Н	*	L	Б
	L	L	Н	Н	Н	Н	*	L	ŗ
	L	Н	L	L	L	Н	*	L	8
	L	Н	L	L	Н	Н	*	L	3
	L	Н	L	Н	L	Н	*	L	-
	L	Н	L	Н	Н	Н	*	L	Blank
	L	Н	Н	L	L	Н	*	L	Blank
	L	Н	Н	L	Н	Н	*	L	Blank
	L	Н	Н	Н	L	Н	*	L	Blank
	L	Н	Н	Н	Н	Н	*	L	Blank
	L	*	*	*	*	L	*	L	•
	*	L	L	L	L	Н	Н	Н	Blank (See note 2.)
	Н	*	*	*	*	*	*	*	Retains the display conditions of A through D, and DP terminals before LE goes high. RBI is not related.

Note: 1. Input low for RBI when data "0" is displayed. RBI will go high in open mode and the zero suppression will function.

Models with Blanking (M7E-01DRD2-B/M7E-01DGD2-B)

				Input				Display
Connector pin No.	3	9	5	6	7	8	4	condition
Terminal number	3	9	5	6	7	8	4	
Terminal symbol	LE	RBI	D	С	В	Α	DP	
Input	L	Н	L	L	L	L	Н	0
signals	L	Н	L	L	L	Н	Н	1
	L	Н	L	L	Н	L	Н	2
	L	Н	L	L	Н	Н	Н	3
	L	Н	L	Н	L	L	Н	4
	L	Н	L	Н	L	Н	Н	5
	L	Н	L	Н	Н	L	Н	6
	L	Н	L	Н	Н	Н	Н	7
	L	Н	Н	L	L	L	Н	8
	L	Н	Н	L	L	Н	Н	9
	L	Н	Н	L	Н	L	Н	-
	L	Н	Н	L	Н	Н	Н	Blank
	L	Н	Н	Н	L	L	Н	Blank
	L	Н	Н	Н	L	Н	Н	Blank
	L	Н	Н	Н	Н	L	Н	Blank
	L	Н	Н	Н	Н	Н	Н	Blank
	*	Н	*	*	*	*	L	•
	*	L	*	*	*	*	*	Blank (See note.)
	Н	Н	*	*	*	*	*	Retains the display conditions of A through D terminals before LE goes high. DP is not related.

Note: RBI takes precedence over any input signal.

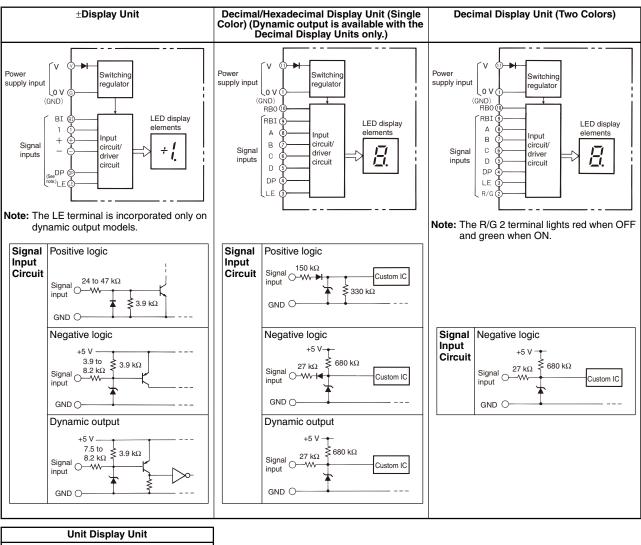
^{2.} The display will go blank when the data input is "0" and the DP is OFF.

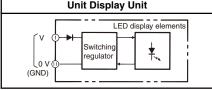
^{*} Either high or low

^{*} Either high or low

■ Block Diagram

Note: Circled numbers are the board terminal numbers.





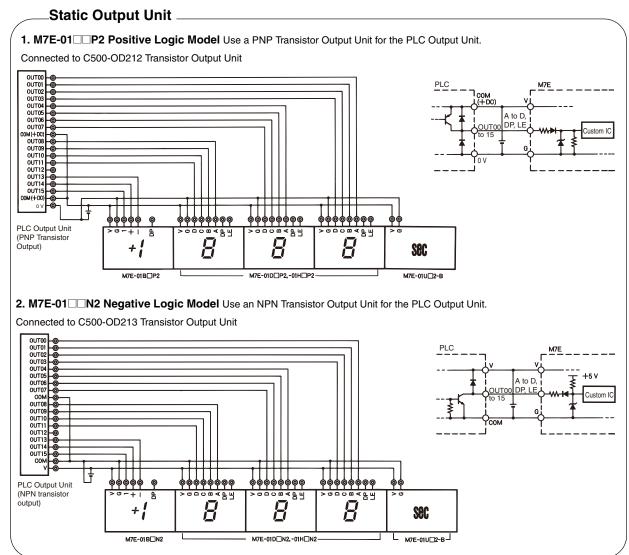
Note: The terminal numbers of the Unit Display Unit are different from the terminal numbers of the connector. Refer to *Terminal Arrangements and Functions* on page 3 for details.

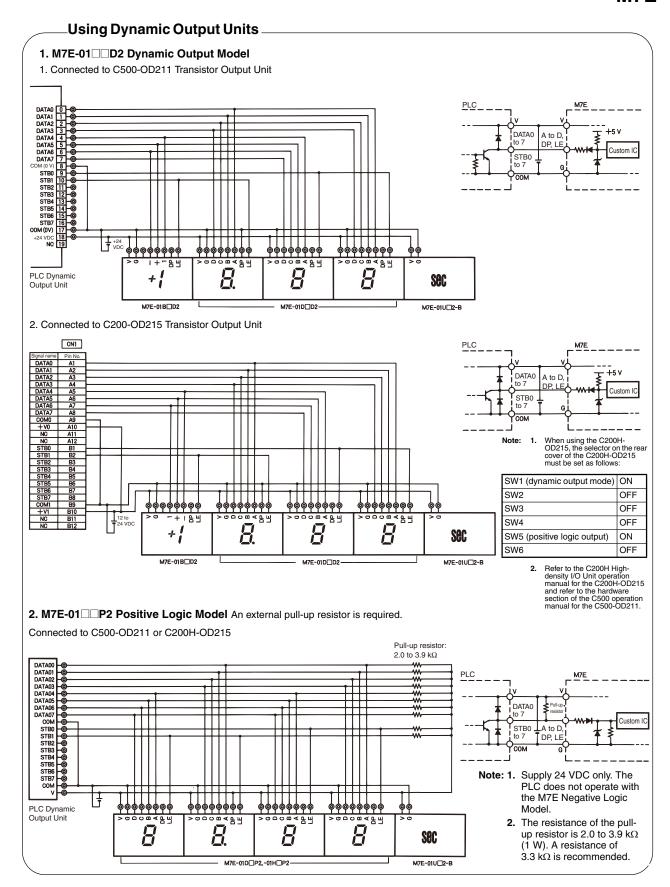
■ External Connections

Refer to the Terminal Arrangement on page 3 and the Block Diagram on page 8 for external connections for each unit.

Example of connection to a PLC.

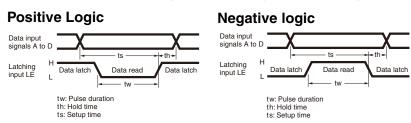
- Refer to the PLC operation manual before connecting the PLC.
- The number of wires can be reduced by using a PLC with dynamic outputs.





Operation

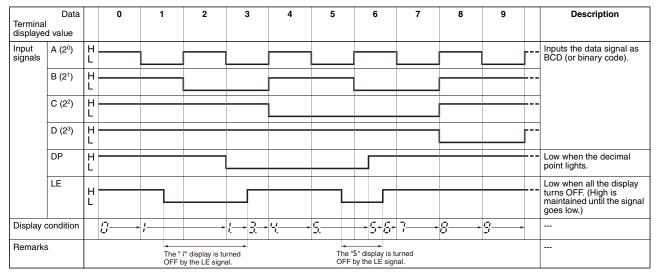
■ Operation Timing (Input Signal Timing)



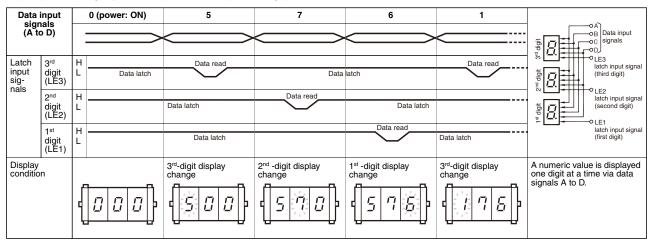
Pulse duration (tw)	1.5 ms min.
Hold time (th)	0.75 ms min.
Setup time (ts)	2.25 ms min.

■ Operation Chart

• The following example shows the relationship between each input terminal signal and the display condition for a Negative-logic Decimal Display Unit with Blanking.



• Using the latch input (LE) terminal for each Unit, the data input terminals (A to D) can be used in common yet still enable display on each Unit (example of a 3-digit dynamic-output model with positive logic).

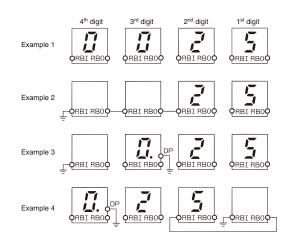


Example of Zero Suppression Usage: Description Using Negative Logic Model

The zero suppression function operates when the display is \overline{a} , RBI is low and the decimal point is not lit.

- Example 1: The RBI input and RBO output of each digit are open when zero suppression is not being used.
- Example 2: Wired as shown to display only \overline{u} for the rightmost digit when zero suppression is being used.
- Example 3: Zeros are suppressed only for the digits on the left of the digit where the decimal is lit when both zero suppression and a decimal point are being used.
- Example 4: Zeros are suppressed to the right of the first digit below the decimal point when both zero suppression and a decimal point are being used. If the first-to-fourth-digit values are all 0 and the decimal point is lit at the fourth digit, $\Omega.D\Box\Box$ will be displayed. (There is no data in $\Box\Box$.)

Note: Use RBO output for the RBI input connection only.

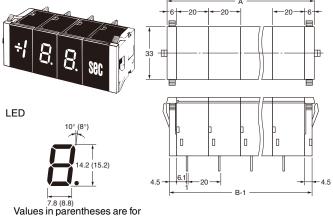


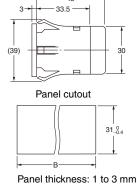
Dimensions

the two-color (red and green) Digital Display Units.

Note: All units are in millimeters unless otherwise indicated.







(Unit: mm)

Number of Units (n)		Dimensions B (n×20+10)
1	32±0.4	30±0.4
2	52±0.4	50±0.4
3	72±0.4	70±0.4
4	92±0.4	90±0.4
5	112±0.8	110±0.8
6	132±0.8	130±0.8
7	152±0.8	150±0.8
8	172±0.8	170±0.8

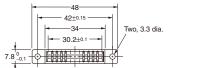
- Note: 1. Dimensions A and B include End Plates. Inclusion of spacers increases the length by 10 mm per spacer.
 - 2. Tolerance is ±0.4 mm unless otherwise specified.

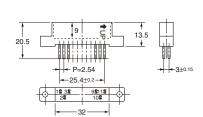
■ Accessories (Order Separately)

End Plate Spacer M7E-012M(-1) M7E-012PA(-1) 33.5 Left End Right End Note: Tolerance is ± 0.4 mm unless otherwise specified.

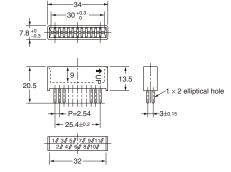
Connector

NRT-C Soldered Terminal

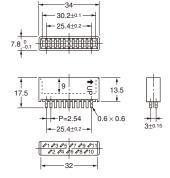




NRT-CN Soldered Terminal



NRT-CP PCB Terminal



Face Plate

- The required face plate is used with the Unit Display Unit, which incorporates a surface-lighting LED.
- The following face plates are available. When ordering the M7E-01U□2-⅓, add the suffix according to your requirement.
- Custom face plates can be made. For the procedure to make face plates, refer to Safety Precautions for M7E.

Symbol	Α	В	С	D	E	F	G	Н	J	JC1	K	٧	Z 1	Z2
Display contents	Blank display	sec	min	h	g	kg	mm	cm	m	m/min	င္	rpm	%	ppm

ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.

To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527

In the interest of product improvement, specifications are subject to change without notice.

Safety Precautions for M7E

■ Precautions for Correct Use

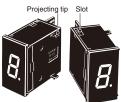
Display Units

Installation environment

- Use the Unit in locations that are not subject to organic solvents (thinner, benzene, etc.), strong alkali, strong acid, sunlight, and corrosive gases.
- · These Display Units are designed for indoor use only. Visibility may be significantly reduced if the Unit is used outside or in locations where the ambient brightness exceeds the brightness of the M7E. The product is not drip-proof. Use the product where it will not be subject to water or oil splashing.
- · Use the Units in areas not subject to vibration or shock in excess of specifications.

Mounting

· Link the Units by snapping the projecting tips and slots together.



• To undo the linkage, use a slotted screwdriver as shown in the following figure and press the upper and lower tips while separating.

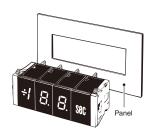


Connector Insertion

When inserting the connector, make sure that the UP arrow is pointing upwards.



· When the End Plates are linked, the entire set can be quickly mounted and fastened to a panel. Confirm that the links between units and End Plates are secure, and then securely fasten the End Plate tips to the panel.



Wiring and Connections

Make sure that no wire is more than five meters long when wiring.

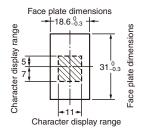
Handling

There are projecting tips made of resin on the side of each Display Unit. Be sure not to drop the Display Unit, otherwise the projecting

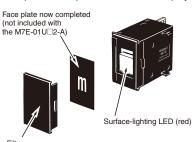
Procedure for Making Face Plates for M7E-01 Unit Display Unit

Custom face plates can be made according to the following

- 1. Prepare a blank Unit Display Unit (M7E-01UR2-A or M7E-01UG2-A) for the desired lighting color.
- 2. Take transparent polyester film (with thickness equivalent to 0.188) and cut it to the following dimensions.



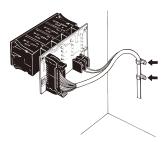
- 3. Print solid black on the film covering all areas except the character and so that the desired unit character is within the character display range (with the unit character transparent).
- 4. Install the completed face plate into the Unit Display Unit.



Mother Board

Wiring and Connections

Secure the cable and lead wires with the panel so that no excessive force will be imposed on the input connector or power supply terminals



M7E Connection

• Connection of Mother Board and M7E

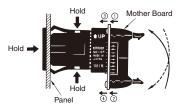
Mother board	Positive	Negative	Dynamic	
Static	О	О	× (See note.)	O: Possible
Dynamic	О	О	0	×: Impossible

Note: Do not connect the Mother Board static model to the M7E-01D□D2(-B) dynamic model, otherwise LE will be held.

- When using the M7E-01□□P2(-B) positive logic standard model, a pullup resistor may be required. Check the output circuit of the connecting device and use a pull-up resistor if necessary.
- All M7E models used on a single Mother Board must be identical.

Connecting or Disconnecting the M7E

When connecting the M7E to or disconnecting the M7E from the Mother Board, hold the front panel of the M7E or the case and be sure to apply appropriate force on the top and bottom of the Mother Board alternately.



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