CSM_M7E(14mm)_DS_E_5_1

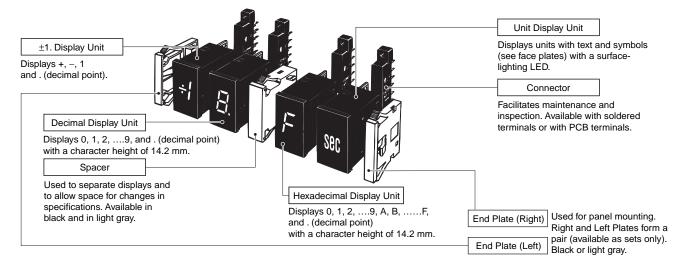
New Models with Blanking Function Added to the Series

- 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



OMRON 1

Ordering Information

■ List of Models

Display	Display	Туре	Mo	del
contents	color		Model with Zero Suppression (See note 1.)	Model with Blanking (See note 2.)
±1	Red	Positive		M7E-01BRP2
To A		Negative		M7E-01BRN2
		Dynamic output		M7E-01BRD2
+	Green	Positive		M7E-01BGP2
		Negative		M7E-01BGN2
		Dynamic output		M7E-01BGD2
Decimal	Red	Positive	M7E-01DRP2	M7E-01DRP2-B
To Do		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- mal	Red	Positive	M7E-01HRP2	M7E-01HRP2-B
mai		Negative	M7E-01HRN2	M7E-01HRN2-B
	Green	Positive	M7E-01HGP2	M7E-01HGP2-B
F		Negative	M7E-01HGN2	M7E-01HGN2-B

Connectable PLCs

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

- O: Connectable
- x: 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.

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

- Note: 1. Models with zero suppression are blank only when the display is $\it I\!\!I$ and the decimal is OFF by wiring as shown on page 12.
 - 2. Models with blanking enable turning OFF a user-specified display (1) to 9, 8 to F) by inputting a signal to the blank input terminal.
 - **3.** The symbol in the box (□) indicates the code for the display contents. Refer to page 13.

■ 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

Connector

Te	erminal	Model
Solder terminal	At the thirty of the same of t	NRT-C
Solder terminal	De Control of the Con	NRT-CN
PCB terminal	The state of the s	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: Greed LED: Red/green LED:	35 mA max. at 24 VDC 60 mA max. at 12 VDC 40 mA max. at 24 VDC 75 mA max. at 12 VDC 45 mA max. at 24 VDC 90 mA max. at 12 VDC	
Input level	Positive logic	High: 9.6 V to power supply voltage Low: 0 to 3 V		
	Negative logic	High: 4 V to power supply voltage Low: 0 to 1.5 V Residual voltage: 1.5 V max. OFF leakage current: 0.1 mA max.		
	Dynamic output	High: 4 V to power supply voltage Low: 0 to 1.5 V		
Ambient temperature		Operating: -10 to 55°C (with no icing) Storage: -25 to 70°C (with no icing)		
Ambie	ent humidity	Operating: 35% to 85% (with no condensation)		

■ Characteristics

Insulation resistance	100 $M\Omega$ 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.

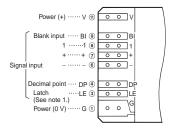
Installation

■ Terminal Arrangements and Functions

Terminal Arrangement

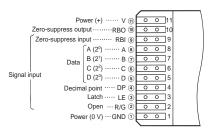
Note: The circled numbers are the connector pin numbers (NRT- \square).

±1. Display Unit M7E-01B□□2

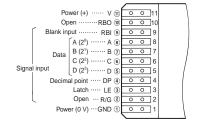


Decimal/Hexadecimal Display Unit (Single Color)

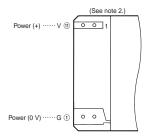
Models with Zero Suppression M7E-01D□□2/M7E-01H□□2



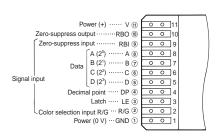
Models with Blanking M7E-01D□□2-B/M7E-01H□□2-B



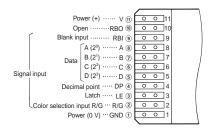
Unit Display Unit M7E-01U□2-□



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



Models with Blanking M7E-01DRGN2-B

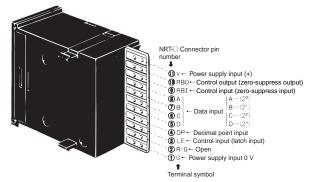


- Note: 1. The latch terminal on ±1. Display Units is provided only on Dynamic Output Models.
 - 2. The terminal numbers of the Unit Display Unit are different from the terminal numbers of the connector.

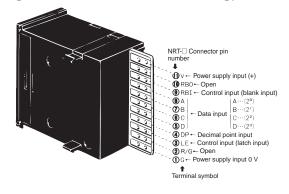
Terminal Functions

Ter-	Name		Function	
minal sym-		Decimal/Hexaded	imal 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.)		
ВІ	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 Hexadecima Displays a correspond binary code Decimal displays and thing will 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)

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



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



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)

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

Note: 1. BI takes precedence over any input signal.

2. Inputting + and - simultaneously enables to display \pm .

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

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

		In	put sign	al		Display
Connector pin No.	9	7	6	8	4	conditions
Terminal symbol	ВІ	+	-	1	DP	
Input signals	Н	Н	Н	Н	Η	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	Α	DP	RBI	RBO	Decimal	Hexadeci- mal		
Input	┙	┙	┙	┙	Ы	L	L	L		0		
signals	┙	┙	┙	┙	Ι	L	*	L		1		
				Ι	_	L	*	L		2		
	L	L	L	Τ	Η	L	*	L		3		
	L	L	Τ	L	_	L	*	L	4			
	L	L	Η	L	Ι	L	*	L	5			
	L	L	Н	Н	L	L	*	L	δ			
	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	Ι	L	Ι	L	L	*	L	-	R		
	L	Η	L	Η	Ι	L	*	L	Blank	ь		
	L	Н	Н	L	L	L	*	L	Blank	[
	L	Н	Н	L	Н	L	*	L	Blank	d		
	L	Η	Η	Η	L	L	*	L	Blank	Ε		
	L	Н	Н	Н	Н	L	*	L	Blank	۶		
	L	*	*	*	*	Н	*	L		•		
	*	L	L	L	L	L	Н	Н	Blank (See note 1.)			
	Н	*	*	*	*	*	*	*	Retains the display conditions of A through D and DP terminals before LE goes high. RBI is not related.			

Note: 1. The display will go blank when the data input is "0" and the DP is OFF.

2. If the input terminals are open when the power supply is turned ON, the voltage between the input terminals will not be stable, the LE terminal may go high, and the M7E may show unexpected displays. When you turn ON the power supply, we recommend that you either set the LE terminal to low or input a signal to the specified terminals from the host.

Negative logic (M7E-01DRN2/M7E-01DGN2/M7E-01DRGN2/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	C	В	A	DP	RBI	RBO	Decimal	Hexadec- imal		
Input	Τ	Τ	Ι	Τ	Τ	Ι	Ι	Ι		0		
signals	Τ	Τ	Ι	Τ	L.	Ι	*	Ι		1		
	Ι	Η	Η	L	Η	Н	*	Η		2		
	Τ	Τ	Ι	٦	L.	Ι	*	Ι		3		
	Τ	Τ	┙	Τ	Τ	Ι	*	Ι	ч			
	Н	Τ	L	Τ	L	I	*	Н	5			
	Η	Τ	١	L	Η	Η	*	Н	5			
	Η	Τ	١	L	٦	Η	*	Н	77			
	Н	L	Н	Τ	Τ	I	*	Н	8			
	Н	L	Н	Н	L	Н	*	Н		9		
	Η	L	Ι	L	Ι	Η	*	Η	-	R		
	Н	L	Н	L	L	I	*	Н	Blank	ь		
	Н	L	L	Н	Н	Н	*	Н	Blank	[
	Н	L	L	Н	L	Η	*	Н	Blank	Ь		
	Н	L	L	L	Н	Н	*	Н	Blank	E		
	Н	L	L	L	L	Н	*	Н	Blank F			
	Н	*	*	*	*	L	*	Н				
	*	Ι	Ι	Ι	Τ	Н	L	L	Blank (See note.)			
	L	*	*	*	*	*	*	*	Retains the display conditions of A through D, DP and R/G terminals before LE goes low. RBI is not related.			

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

5

^{*} 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	C	В	A	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	Η	Η	L	3				
	L	L	┙	Ι	┙	L.	L	Y				
	L	L	┙	Ι	٦	Τ	L	5				
	L	L	L	Η	Η	L	L	8				
	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	-	R			
	L	L	Н	L	Н	Н	L	Blank	ь			
	L	L	Н	Н	L	L	L	Blank	E			
	L	L	Н	Н	L	Н	L	Blank	В			
	L	L	Н	Н	Н	L	L	Blank	Ε			
	L	L	Н	Н	Н	Н	L	Blank	F			
	*	L	*	*	*	*	Н					
	*	Н	*	*	*	*	*	Blank (See note.) Retains the display conditions of A through D terminals before LE goes high. DP is not related.				
	Н	L	*	*	*	*	*					

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)

			I	nput				Display cor	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	C	В	A	DP	Decimal	Hexa- decimal		
Input	Н	Η	Ι	Τ	Ι	Ι	Τ	0			
signals	Н	Н	Η	Н	Η	L	Н	1			
	Н	Н	Η	Н	L	Η	Н	2			
	Н	Н	Н	Τ	L	L	Τ	3			
	Н	Н	Н	L	Н	Н	Н	4			
	Н	Ι	Ι	L	Ι	L	Τ	5			
	Н	Н	Н	L	L	Η	Τ	δ			
	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	Ĺ		
	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 display conditions of A through D, and R/G terminals before LE goes low. DP is not related.			

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.)
	Н	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	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	C	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	Τ	L	Н	*	L	2
	L	L	┙	Η	Τ	Н	*	L	3
	┙	┙	Ι	┙	┙	Н	*	L	7
	┙	┙	Ι	┙	Ι	Н	*	L	5
	L	L	Ι	Η	L	Н	*	L	8
	L	L	Н	Н	Н	Н	*	L	ņ
	L	Н	L	L	L	Н	*	L	8
	L	Η	L	L	Ι	Н	*	L	3
	L	Η	_	Τ	Ь	Н	*	L	-
	L-	Ι		Ι	Τ	Н	*	L	Blank
	L	Η	Ι	L	L	Н	*	L	Blank
	L	Н	Н	L	Н	Н	*	L	Blank
	L	Н	Н	Н	L	Н	*	L	Blank
	L	Η	Ι	Η	Ι	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	C	В	Α	DP	
Input	L	Н	L	L	L	L	Н	8
signals	L	Н	L	L	L	Н	Н	1
	L	Н	L	L	Ι	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	8
	L	Н	L	Н	Н	Н	Н	7
	L	Н	Н	L	L	L	Н	8
	L	Н	Н	L	L	Н	Н	3
	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.

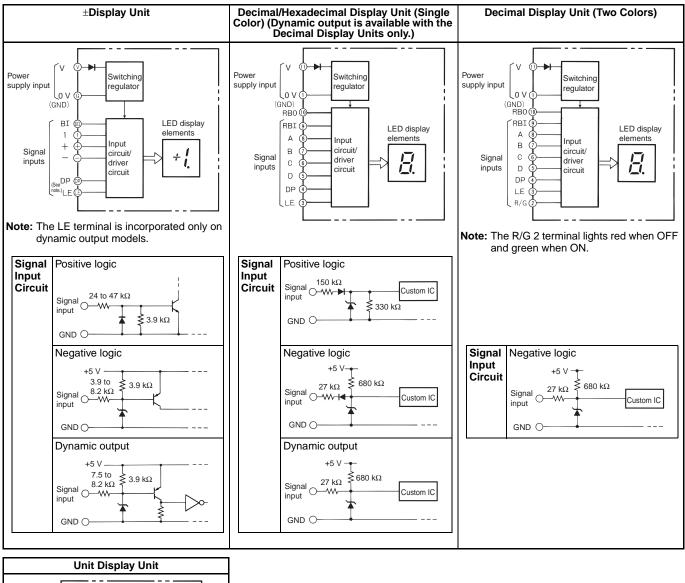
^{2.} The display will go blank when the data input is "0" and the DP is OFF.

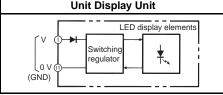
^{*} Either high or low

^{*} 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.

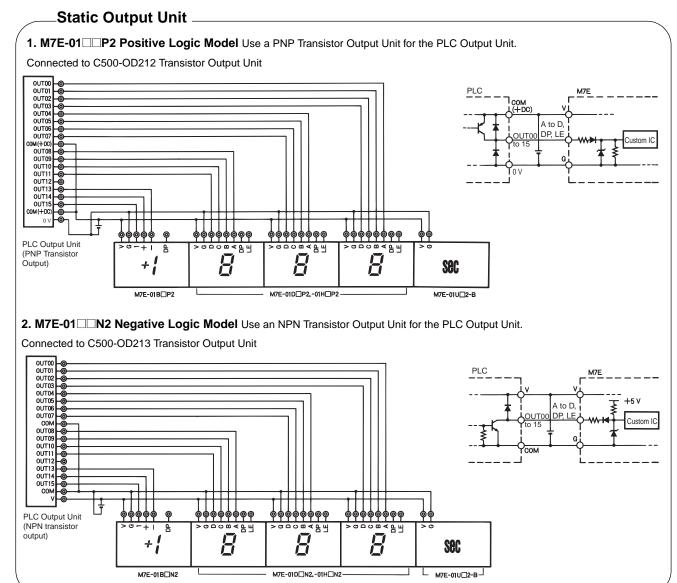
8

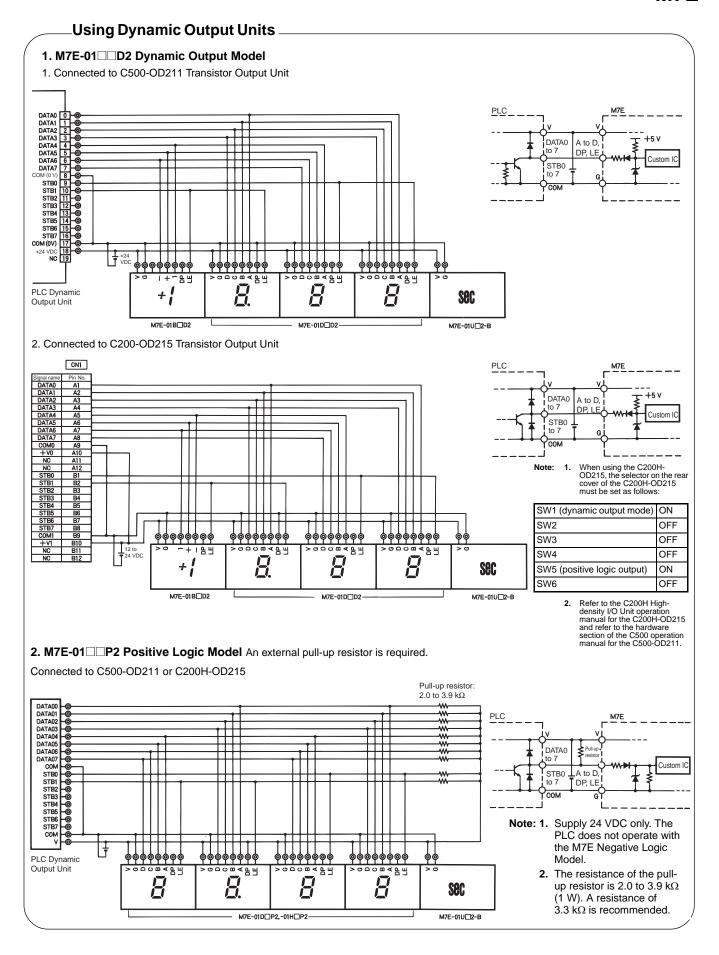
■ External Connections

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.

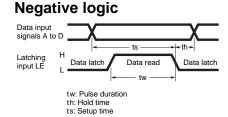




Operation

■ Operation Timing (Input Signal Timing)

Positive Logic Data input signals A to D Latching input LE Latching input LE Latching input LE Data latch Data read Data latch



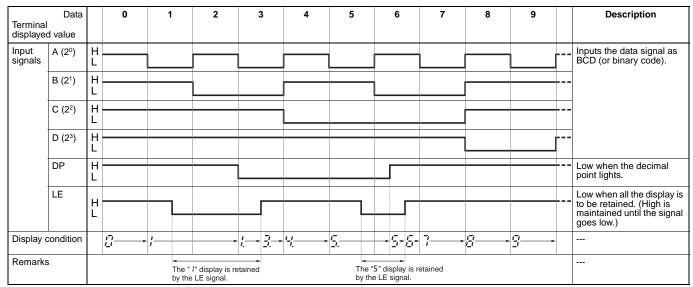
Pulse duration (tw)	1.5 ms min.
Hold time (th)	0.75 ms min.
Setup time (ts)	2.25 ms min.

■ Operation Chart

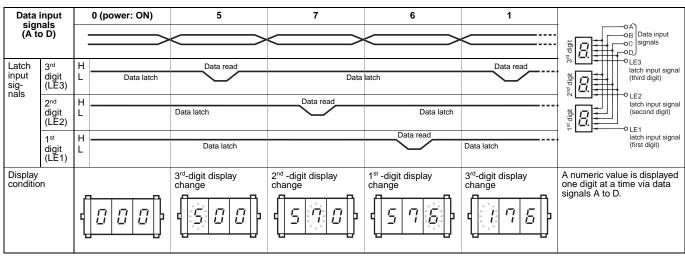
tw: Pulse duration

th: Hold time

• 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).



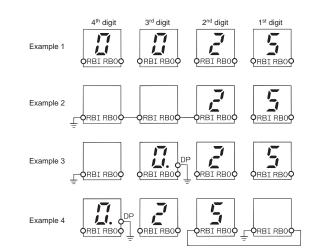
OMRON 11

Example of Zero Suppression Usage: Description Using Negative Logic Model

The zero suppression function operates when the display is \mathcal{Q} , 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 ${\it I}$ 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, \$\mathcal{D} \mathcal{D} \mathcal{D} \mathcal{D} \text{ will be displayed. (There is no data in \$\mathcal{D}\$.)}

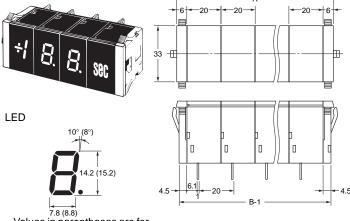
Note: Use RBO output for the RBI input connection only.

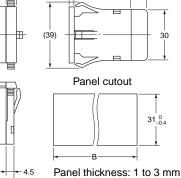


Dimensions

Note: All units are in millimeters unless otherwise indicated.







(Unit: mm)

Number of Units (n)	Dimensions A (n×20+12)	
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.

Values in parentheses are for the two-color (red and green) Digital Display Units.

■ Accessories (Order Separately)

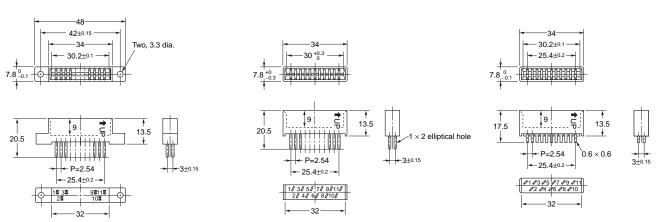
End Plate M7E-012M(-1) Left End (39) Right End (39) (4.3) (4.3) Note: Tolerance is ±0.4 mm unless otherwise specified.

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.

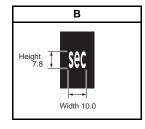
Symbol	Α	В	С	D	E	F	G	Н	J	JC1	K	٧	Z 1
Display contents	Blank display	sec	min	h	g	kg	mm	cm	m	m/min	°C	rpm	%

Character Dimensions

(Unit: mm)

Height	-	7.8	11.0	9.7	10.5	13.8	7.5	7.5	7.5	12.5	9.2	10.5	9.0
Width	-	10.0	10.0	5.0	5.0	10.0	10.5	10.0	8.5	12.0	9.5	11.0	9.0

Example of Dimensions



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.

Read and Understand This Catalog

Please read and understand this catalog before purchasing the products. Please consult your OMRON representative if you have any questions or comments.

Warranty and Limitations of Liability

WARRANTY

OMRON's exclusive warranty is that the products are free from defects in materials and workmanship for a period of one year (or other period if specified) from date of sale by OMRON.

OMRON MAKES NO WARRANTY OR REPRESENTATION, EXPRESS OR IMPLIED, REGARDING NON-INFRINGEMENT, MERCHANTABILITY, OR FITNESS FOR PARTICULAR PURPOSE OF THE PRODUCTS. ANY BUYER OR USER ACKNOWLEDGES THAT THE BUYER OR USER ALONE HAS DETERMINED THAT THE PRODUCTS WILL SUITABLY MEET THE REQUIREMENTS OF THEIR INTENDED USE. OMRON DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED.

LIMITATIONS OF LIABILITY

OMRON SHALL NOT BE RESPONSIBLE FOR SPECIAL, INDIRECT, OR CONSEQUENTIAL DAMAGES, LOSS OF PROFITS OR COMMERCIAL LOSS IN ANY WAY CONNECTED WITH THE PRODUCTS, WHETHER SUCH CLAIM IS BASED ON CONTRACT, WARRANTY, NEGLIGENCE, OR STRICT LIABILITY.

In no event shall the responsibility of OMRON for any act exceed the individual price of the product on which liability is asserted.

IN NO EVENT SHALL OMRON BE RESPONSIBLE FOR WARRANTY, REPAIR, OR OTHER CLAIMS REGARDING THE PRODUCTS UNLESS OMRON'S ANALYSIS CONFIRMS THAT THE PRODUCTS WERE PROPERLY HANDLED, STORED, INSTALLED, AND MAINTAINED AND NOT SUBJECT TO CONTAMINATION, ABUSE, MISUSE, OR INAPPROPRIATE MODIFICATION OR REPAIR.

Application Considerations

SUITABILITY FOR USE

OMRON shall not be responsible for conformity with any standards, codes, or regulations that apply to the combination of products in the customer's application or use of the products.

At the customer's request, OMRON will provide applicable third party certification documents identifying ratings and limitations of use that apply to the products. This information by itself is not sufficient for a complete determination of the suitability of the products in combination with the end product, machine, system, or other application or use.

The following are some examples of applications for which particular attention must be given. This is not intended to be an exhaustive list of all possible uses of the products, nor is it intended to imply that the uses listed may be suitable for the products:

- Outdoor use, uses involving potential chemical contamination or electrical interference, or conditions or uses not described in this catalog.
- Nuclear energy control systems, combustion systems, railroad systems, aviation systems, medical equipment, amusement machines, vehicles, safety equipment, and installations subject to separate industry or government regulations.
- Systems, machines, and equipment that could present a risk to life or property.

Please know and observe all prohibitions of use applicable to the products.

NEVER USE THE PRODUCTS FOR AN APPLICATION INVOLVING SERIOUS RISK TO LIFE OR PROPERTY WITHOUT ENSURING THAT THE SYSTEM AS A WHOLE HAS BEEN DESIGNED TO ADDRESS THE RISKS, AND THAT THE OMRON PRODUCTS ARE PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM.

PROGRAMMABLE PRODUCTS

OMRON shall not be responsible for the user's programming of a programmable product, or any consequence thereof.

Disclaimers

CHANGE IN SPECIFICATIONS

Product specifications and accessories may be changed at any time based on improvements and other reasons.

It is our practice to change model numbers when published ratings or features are changed, or when significant construction changes are made. However, some specifications of the products may be changed without any notice. When in doubt, special model numbers may be assigned to fix or establish key specifications for your application on your request. Please consult with your OMRON representative at any time to confirm actual specifications of purchased products.

DIMENSIONS AND WEIGHTS

Dimensions and weights are nominal and are not to be used for manufacturing purposes, even when tolerances are shown.

PERFORMANCE DATA

Performance data given in this catalog is provided as a guide for the user in determining suitability and does not constitute a warranty. It may represent the result of OMRON's test conditions, and the users must correlate it to actual application requirements. Actual performance is subject to the OMRON Warranty and Limitations of Liability.

ERRORS AND OMISSIONS

The information in this document has been carefully checked and is believed to be accurate; however, no responsibility is assumed for clerical, typographical, or proofreading errors, or omissions.

2012.9

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



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Controllers category:

Click to view products by Omron manufacturer:

Other Similar products are found below:

CS1WCN223 CS1WCN713 CS1WKS001E 61F-11NH 61FGPN8DAC120 61F-GP-NT AC110 61F-GPN-V50-AC110 70177-1011 F03-03

HAS B F03-03 HAS C F03-31 81513201 81513535 81550401 FT1A-C12RA-W 88981106 H2CAC24A R88A-CAGA005S R88A
CRGB003CR-E R88ARR080100S R88A-TK01K DCN1-1 DTB4896VRE DTB9696CVE DTB9696LVE MR-50LF+ E53-AZ01 E53E8C

E5CWLQ1TCAC100240 B300LKL21 NE1ASCPU02EIPVER11 NE1SCPU01 NE1SDRM21U NSCXDC1V3 NSH5-232CW-3M

NT20SST122BV1 NV3Q-SW41 NV4W-ATT01 NV-CN001 OAS-160-N K31S6 K33-L1B K3TX-AD31A L595020 SRS2-1 G32X-V2K

26546803 26546805 26546831 CJ1W-OD204