

# MT4N Series

# DIN W48×H24mm Small size digital multi panel meter

## ■ Features

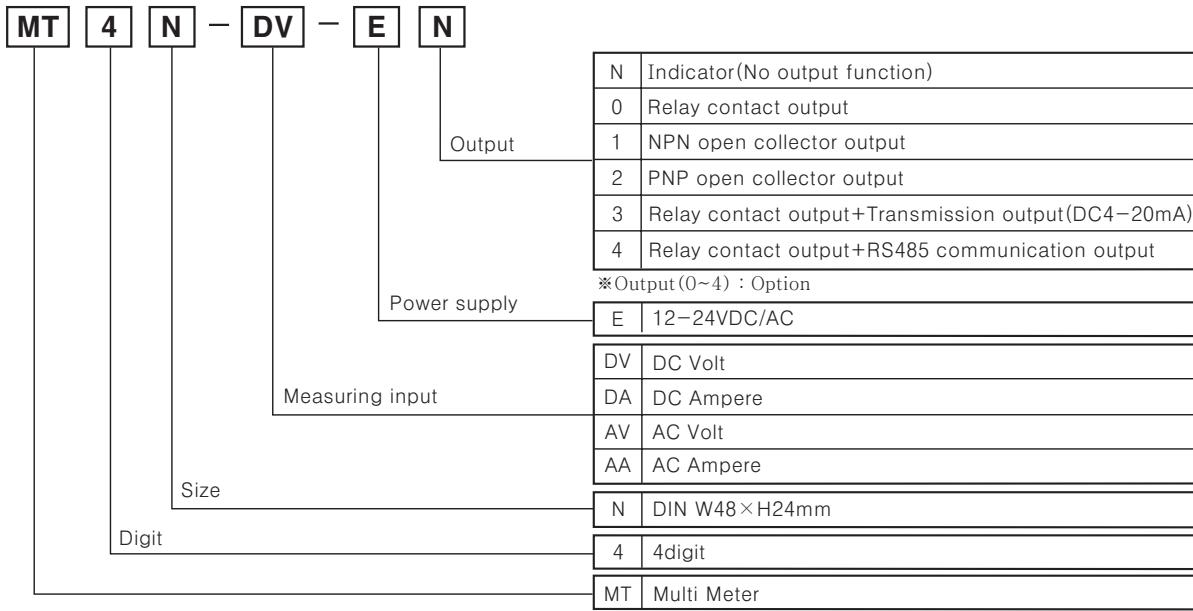
- Various output options (Default : Indicator)  
RS485 Communication output, Current (DC4~20mA),  
NPN/PNP open collector output, Relay contact output
  - Max. measuring inputs :  
50VDC, 250VAC, 500mADC, 5AAC
  - Display range : -1999 ~ 9999
  - High/Low scale
  - AC frequency measurement : Range 0.1~9999Hz
  - Various functions : Monitoring function for max. and  
min. display value function, Display cycle delay function,  
Zero function, High display correction function,  
Current output scale function
  - Power supply : 12~24VDC/VAC



**⚠ Please read "Caution for your safety" in operation manual before using.**

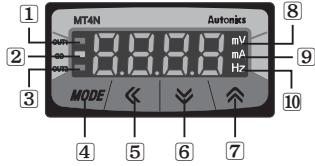


## Ordering information



\* To measure the current over 5ADC, please select DV type because the shunt should be used.

## Front panel identification



- ① OUT1:Preset output of OUT1
  - ② GO:Preset Go output of OUT1/OUT2
  - ③ OUT2:Preset output of OUT2
  - ④ MD Key:Mode Key
  - ⑤ Shift key
  - ⑥ Down key
  - ⑦ Up key
  - ⑧ mV, V Unit
  - ⑨ mA, A Unit
  - ⑩ Hz Unit

\*There is no ①, ②, ③ on a display panel of MT4N-□□-EN.

\*MT4N-□□-E3, E4 model has output display part of OUT1 only.

# Multi Panel Meter

## ■ Specifications

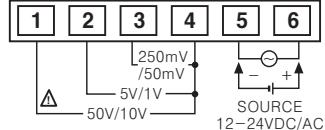
Series	MT4N-DV-E	MT4N-DA-E	MT4N-AV-E	MT4N-AA-E				
Measurement function	VDC, ADC	VAC, AAC, Frequency						
Power supply	12~24VDC/AC(90 to 110% of rated voltage)							
Power consumption		DC : 3W, AC : 5VA						
Display method	7Segment LCD Display, Character height : 9mm							
Display accuracy	<ul style="list-style-type: none"> <li>• 23°C ±5°C, 35~85%RH ⇒ DC Type : ±0.1% F.S ±2Digit</li> <li>• -10°C~50°C ⇒ DC/AC Type : ±0.5% F.S ±3Digit</li> </ul>							
Max. allowable input	110% for input spec.							
A/D conversion method	Over sampling type using SAT type of ADC							
Sampling cycle	DC type:50ms, AC type:16.6ms (Resolution 1/12000)							
Max. display range	-1999~9999(4Digit)							
Preset output	<ul style="list-style-type: none"> <li>• Relay output ⇒ Contact capacity : 125VAC 0.3A, 30VDC 1A/Contact composition : N.O(1a)</li> <li>• NPN/PNP Open Collector output ⇒ 12~24VDC ±2V 50mA Max. (Load resistance)</li> </ul>							
Sub output (Transmission output)	<ul style="list-style-type: none"> <li>• RS485 communication output ⇒ Baud rate : 1200/2400/4800/9600, Communication method : 2 wires half duplex, Tuning method : Sub-synchronization, Protocol : Modbus RTU</li> <li>• Transmission(DC4~20mA) output ⇒ Resolution : 12,000 division (Load resistance max. 600Ω)</li> </ul>							
AC measuring function			Selectable RMS or AVG					
Frequency measuring function	Measurement range : 0.100~9999Hz (Variable depending on decimal point)							
Hold function	★ Includes(Outer hold function)							
Insulation resistance	Min. 20MΩ (500VDC mega)							
Dielectric strength	1000VAC 50/60Hz for 1 minute (Between external terminal and case)							
Noise strength	±2kV the square wave noise (pulse width : 1μs) by the noise simulator							
Vibration	<table border="1"> <tr> <td>Mechanical</td><td>0.75mm amplitude at frequency of 10~55Hz in each of X, Y, Z directions for 2hour</td></tr> <tr> <td>Malfunction</td><td>0.5mm amplitude at frequency of 10~55Hz in each of X, Y, Z directions for 10minutes</td></tr> </table>	Mechanical	0.75mm amplitude at frequency of 10~55Hz in each of X, Y, Z directions for 2hour	Malfunction	0.5mm amplitude at frequency of 10~55Hz in each of X, Y, Z directions for 10minutes			
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Shock	<table border="1"> <tr> <td>Mechanical</td><td>100m/s<sup>2</sup> (10G) in X, Y, Z directions for 3 times</td></tr> <tr> <td>Malfunction</td><td>300m/s<sup>2</sup> (30G) in X, Y, Z directions for 3 times</td></tr> </table>	Mechanical	100m/s <sup>2</sup> (10G) in X, Y, Z directions for 3 times	Malfunction	300m/s <sup>2</sup> (30G) in X, Y, Z directions for 3 times			
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Ambient temperature	-10 ~ 50°C (at non-dew status)							
Storage temperature	-20 ~ 60°C (at non-dew status)							
Ambient humidity	35 ~ 85%RH							
Approval	CE							
Unit weight	Approx. 65g							

※ "★" Indication type does not have outer hold function.

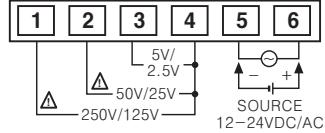
## ■ Connections

### ○ Measuring input terminal connection

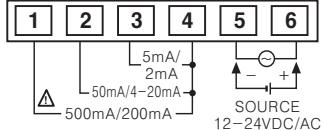
#### ● MT4N-DV-E



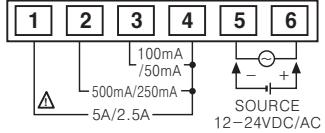
#### ● MT4N-AV-E



#### ● MT4N-DA-E

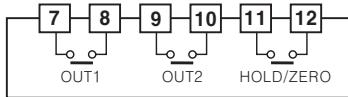


#### ● MT4N-AA-E

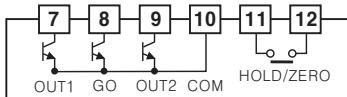


### ○ Option

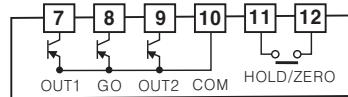
#### ● Relay output [MT4N-□□-E0]



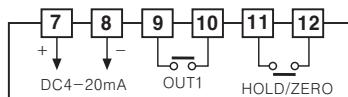
#### ● NPN open collector output [MT4N-□□-E1]



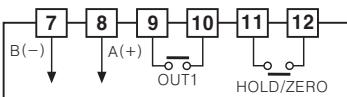
#### ● PNP open collector output [MT4N-□□-E2]



#### ● Relay+Current(DC4~20mA) output [MT4N-□□-E3]



#### ● Relay+RS485 communication output [MT4N-□□-E4]



(A)  
Counter

(B)  
Timer

(C)  
Temp.  
controller

(D)  
Power  
controller

(E)  
Panel  
meter

(F)  
Tacho/  
Speed/  
Pulse  
meter

(G)  
Display  
unit

(H)  
Sensor  
controller

(I)  
Switching  
power  
supply

(J)  
Proximity  
sensor

(K)  
Photo  
electric  
sensor

(L)  
Pressure  
sensor

(M)  
Rotary  
encoder

(N)  
Stepping  
motor &  
Driver &  
Controller

(O)  
Graphic  
panel

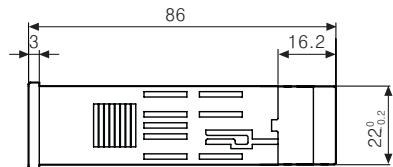
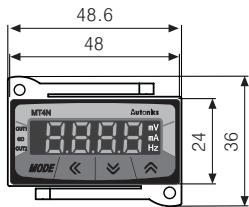
(P)  
Field  
network  
device

(Q)  
Production  
stoppage  
models &  
replacement

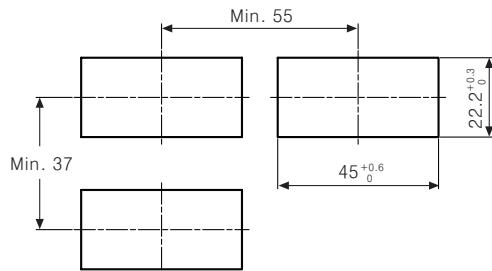
# MT4N Series

## ■ Dimensions

- MT4N-□□-EN



● Panel cut-out



- MT4N-□□-E0



- MT4N-□□-E1, E2



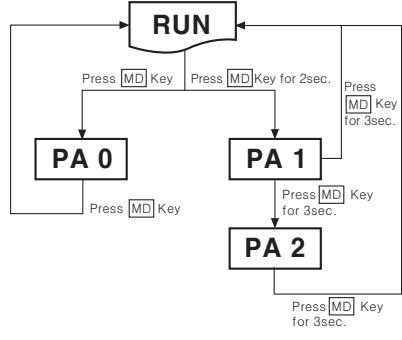
- MT4N-□□-E3, E4



\* Process the unit after consider the above recommended cut-out fully.

(Unit:mm)

## ■ Parameter setting



- \* Press **[MD]** key in **RUN** status, it will advance to **PA-0** group.
- \* Press **[MD]** key in **RUN** status over 2sec, **PA-1** is displayed.
- \* Press **[MD]** key in **RUN** status over 5sec, **PA-2** is displayed after **PA-1** and it stops at **PA-2** as press **[MD]** key continuously.
- \* When release **[MD]** key at displaying **PA-1** or **PA-2**, then it will advance to each parameter.
- \* Press **[MD]** key over 3sec at any position of **PA-1** or **PA-2**, it returns to **RUN** mode automatically.
- \* If any key is untouched for 60sec. in each parameter, it returns to **RUN** mode automatically.
- \* Press **[MD]** key within 2sec. after return to **RUN**, it advance to previous parameter again. (See the below procedure of each parameter to set.)
- \* It cannot advance to **PA-0** when preset output operation mode of **PA-2** is **oFF**.

## ■ Change the parameter setting value

1. Advance to the parameter to be changed when press **[MD]** key continuously in **RUN** mode and release **[MD]** key at the parameter. (Refer to "■ Parameter setting".)
2. When press **[MD]** key in each parameter, the initial mode of the parameter is displayed. (Refer to the description of each parameter.)
3. When press one of **[◀]**, **[▼]**, **[▲]** keys in display mode, saved setting value is displayed.

Ex)  

Saved setting value  
flashes every 0.5sec.

4. Change the setting value by **[▲]** or **[▼]** key.  
Ex) Change AC type measuring input from 250V to 125V.

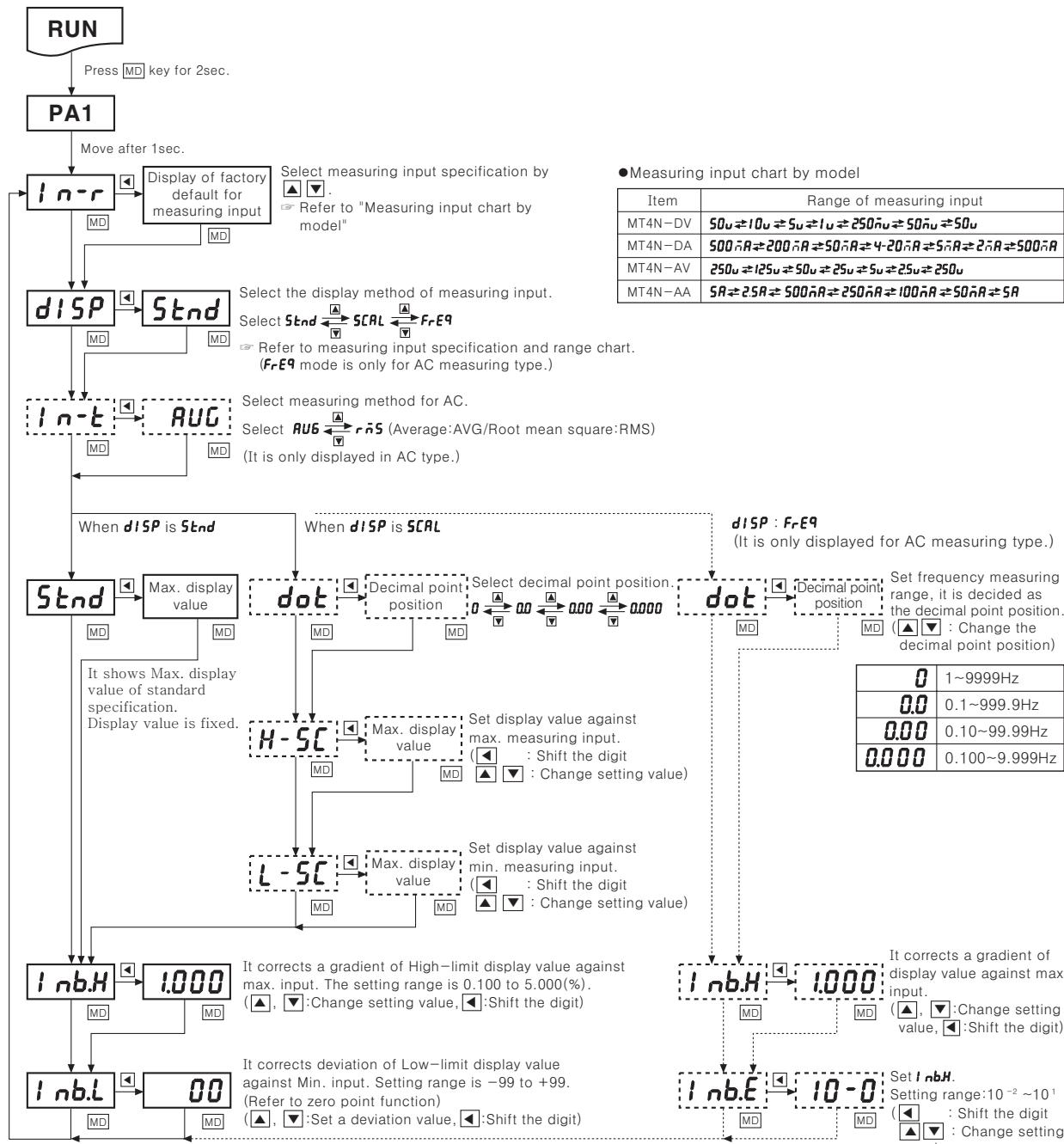
Ex)  

125u  
MODE  
Select one

5. When press **[MD]** key to complete the change and it is advanced to the next mode after flash 2 times.
6. When press **[MD]** key for 3sec. after change, it returns to **RUN** mode.

# Multi Panel Meter

## Parameter group 1



\*After setting each mode, press **MD** Key for 2sec. to return to RUN.

\*If any key is untouched for 60sec. after advance to Parameter, it will return to RUN.

## Factory defaults

Mode	MT4N-DV	MT4N-DA	MT4N-AV	MT4N-AA	Mode	MT4N-DV	MT4N-DA	MT4N-AV	MT4N-AA
<b>In-r</b>	50u	500nA	250u	5A	<b>Inb.H</b>	1.000	1.000	1.000	1.000
<b>dISp</b>	Stnd	Stnd	Stnd	Stnd	<b>Inb.L</b>	00	00	00	00
<b>In-t</b>	—	—	Avg	Avg	<b>dot</b>	0.00	0.0	0.0	0.000
<b>Stnd</b>	5.000	5.000	250.0	5.000	<b>Inb.E</b>	—	—	10-0	10-0

(A) Counter

(B) Timer

(C) Temp. controller

(D) Power controller

(E) Panel meter

(F) Tacho/ Speed/ Pulse meter

(G) Display unit

(H) Sensor controller

(I) Switching power supply

(J) Proximity sensor

(K) Photo electric sensor

(L) Pressure sensor

(M) Rotary encoder

(N) Stepping motor & Driver & Controller

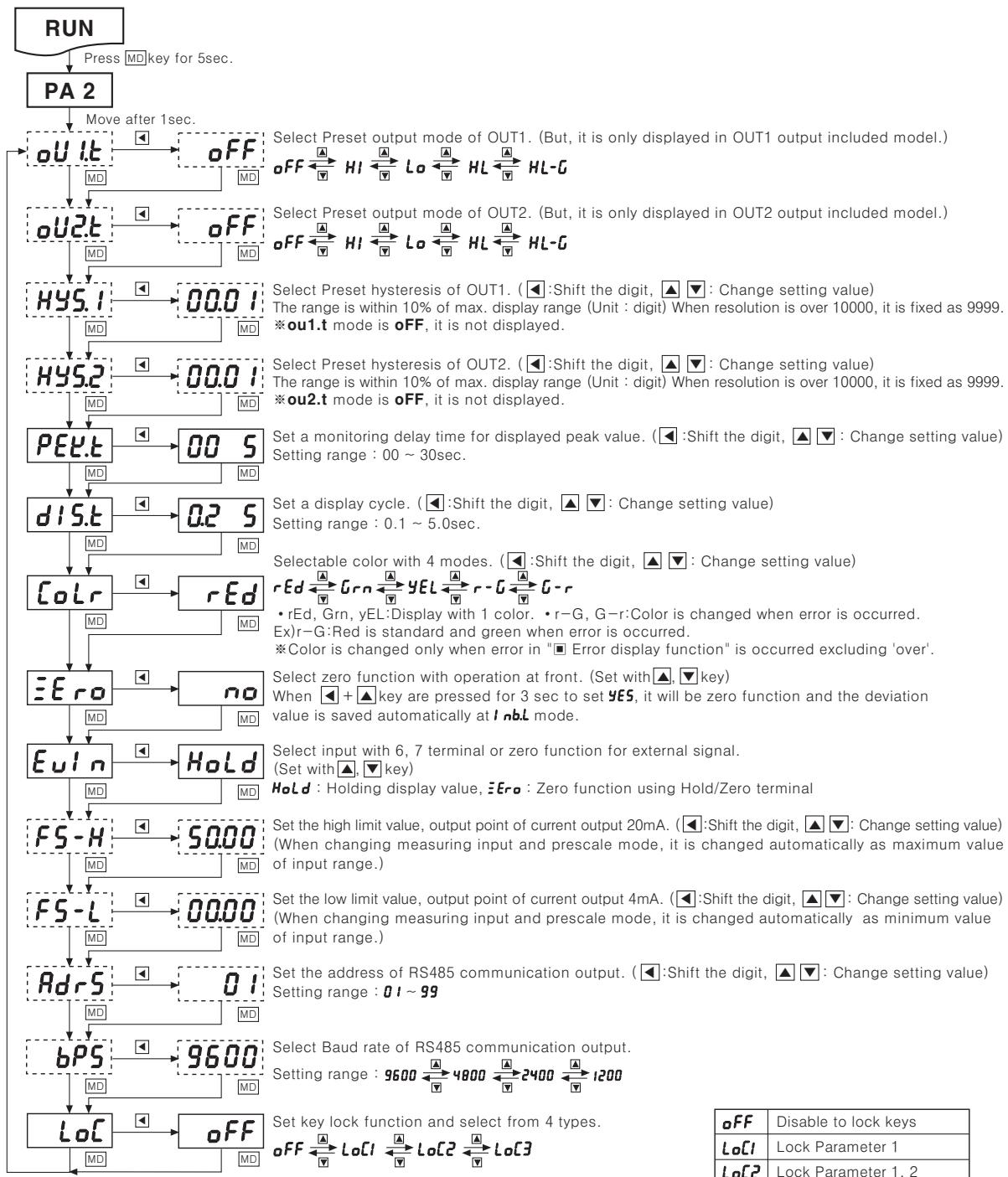
(O) Graphic panel

(P) Field network device

(Q) Production stoppage models & replacement

# MT4N Series

## ■Parameter group 2



\*The dotted mode is only displayed for output type.

\*After setting each mode, press MD Key for 2sec. to return to RUN mode.

\*If any key is untouched for 60sec. after advance to PARAMETER, it will return to RUN mode.

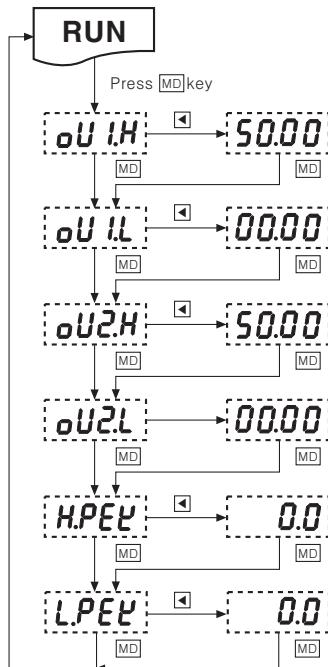
\*The min. setting interval between **FS-H** and **FS-L** is 10% F • S, it is fixed as 10% of the setting value when it is small.

<b>oFF</b>	Disable to lock keys
<b>Loc1</b>	Lock Parameter 1
<b>Loc2</b>	Lock Parameter 1, 2
<b>Loc3</b>	Lock Parameter 0, 1 and 2

## ○ Factory defaults

Mode	MT4N-DV	MT4N-DA	MT4N-AV	MT4N-AA	Mode	MT4N-DV	MT4N-DA	MT4N-AV	MT4N-AA
<b>ou1.t</b>	<b>oFF</b>	<b>oFF</b>	<b>oFF</b>	<b>oFF</b>	<b>Ero</b>	<b>no</b>	<b>no</b>	<b>no</b>	<b>no</b>
<b>ou2.t</b>	<b>oFF</b>	<b>oFF</b>	<b>oFF</b>	<b>oFF</b>	<b>Euin</b>	<b>Hold</b>	<b>Hold</b>	<b>Hold</b>	<b>Hold</b>
<b>HYS.1</b>	<b>000.1</b>	<b>000.1</b>	<b>000.1</b>	<b>000.1</b>	<b>FS-H</b>	<b>5000</b>	<b>5000</b>	<b>2500</b>	<b>5000</b>
<b>HYS.2</b>	<b>000.1</b>	<b>000.1</b>	<b>000.1</b>	<b>000.1</b>	<b>FS-L</b>	<b>0000</b>	<b>0000</b>	<b>00</b>	<b>0000</b>
<b>PEE.t</b>	<b>00.5</b>	<b>00.5</b>	<b>00.5</b>	<b>00.5</b>	<b>Adrs</b>	<b>01</b>	<b>01</b>	<b>01</b>	<b>01</b>
<b>dIS.t</b>	<b>0.2.5</b>	<b>0.2.5</b>	<b>0.2.5</b>	<b>0.2.5</b>	<b>bPS</b>	<b>9600</b>	<b>9600</b>	<b>9600</b>	<b>9600</b>
<b>Colr</b>	<b>rEd</b>	<b>rEd</b>	<b>rEd</b>	<b>rEd</b>	<b>Loc</b>	<b>oFF</b>	<b>oFF</b>	<b>oFF</b>	<b>oFF</b>

## ■ Parameter group 0



Set High-limit preset value of Out1.t. (Set with **[◀]**, **[▶]**, **[▶]** Key)

\*It is displayed when set the preset only.

When set **OFF** in **oUtt** mode if **PA-2**, the parameter is not displayed.

Set Low-limit preset value of Out1.t. (Set with **[◀]**, **[▶]**, **[▶]** Key)

\*It is displayed when set the preset only.

When set **OFF** in **oUtt** mode if **PA-2**, the parameter is not displayed.

Set High-limit preset value of Out2.t. (Set with **[◀]**, **[▶]**, **[▶]** Key)

\*It is displayed when set the preset only.

When set **OFF** in **oUtt** mode if **PA-2**, the parameter is not displayed.

Set Low-limit preset value of Out2.t. (Set with **[◀]**, **[▶]**, **[▶]** Key)

\*It is displayed when set the preset only.

When set **OFF** in **oUtt** mode if **PA-2**, the parameter is not displayed.

It shows High-limit monitoring value while it is **RUN** status.

It will be reset by pressing **[◀]** key.

It shows Low-limit monitoring value while it is **RUN** status.

It will be reset by pressing **[◀]** key.

\*If "00" is set in **PEEP** mode of **PA-2**, **HPEP** and **LPEP** modes will not be displayed.

\*If any key is untouched for 60sec. after advance to Parameter, it will return to **RUN** mode.

## ○ Factory defaults

Mode	MT4N-DV	MT4N-DA	MT4N-AV	MT4N-AA	Mode	MT4N-DV	MT4N-DA	MT4N-AV	MT4N-AA
<b>oU1H</b>	<b>5000</b>	<b>5000</b>	<b>2500</b>	<b>5.000</b>	<b>oU2L</b>	<b>0000</b>	<b>0000</b>	<b>0000</b>	<b>0000</b>
<b>oU1L</b>	<b>0000</b>	<b>0000</b>	<b>0000</b>	<b>0000</b>	<b>HPEP</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>oU2H</b>	<b>5000</b>	<b>5000</b>	<b>2500</b>	<b>5.000</b>	<b>LPEP</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>

## ■ Specification of measuring input and range

	Measuring input and range	Input impedance	Standard [Std]	Prescale [Scal]
			Display range [Fixed]	Display range [Variable]
DC Volt	0~50V [50V]	434.35kΩ	0.00~50.00(Fixed)	
	0~10V [10V]	434.35kΩ	0.00~10.00(Fixed)	
	0~5V [5V]	43.35kΩ	0.000~5.000(Fixed)	
	0~1V [1V]	43.35kΩ	0.000~1.000(Fixed)	
	0~250mV [250mV]	2.15kΩ	0.0~250.0(Fixed)	
	0~50mV [50mV]	2.15kΩ	0.00~50.00(Fixed)	
DC Ampere	0~500mA [500mA]	0.1Ω	0.0~500.0(Fixed)	
	0~200mA [200mA]	0.1Ω	0.0~200.0(Fixed)	
	0~50mA [50mA]	1.1Ω	0.00~50.00(Fixed)	
	4~20mA [4~20mA]	1.1Ω	4.00~20.00(Fixed)	
	0~5mA [5mA]	101.1Ω	0.000~5.000(Fixed)	
	0~2mA [2mA]	101.1Ω	0.000~2.000(Fixed)	
AC Volt	0~250V [250V]	1.109MΩ	0.0~250.0(Fixed)	
	0~125V [125V]	1.109MΩ	0.0~125.0(Fixed)	
	0~50V [50V]	200kΩ	0.00~50.00(Fixed)	
	0~25V [25V]	222kΩ	0.00~25.00(Fixed)	
	0~5V [5V]	22kΩ	0.000~5.000(Fixed)	
	0~2.5V [2.5V]	22kΩ	0.000~2.500(Fixed)	
AC Ampere	0~5A [5A]	0.01Ω	0.000~5.000(Fixed)	
	0~2.5A [2.5A]	0.01Ω	0.000~2.500(Fixed)	
	0~500mA [500mA]	0.1Ω	0.0~500.0(Fixed)	
	0~250mA [250mA]	0.1Ω	0.0~250.0(Fixed)	
	0~100mA [100mA]	0.5Ω	0.0~100.0(Fixed)	
	0~50mA [50mA]	0.5Ω	0.00~50.00(Fixed)	

\*Please connect proper terminal its max. input voltage is within 30~100% of input terminal. When it is higher than input voltage, it may cause a breakdown of terminal and over display range and the accuracy is decreased when it is connected to the terminal under 30%.

(A) Counter

(B) Timer

(C) Temp. controller

(D) Power controller

(E) Panel meter

(F) Tacho/ Speed/ Pulse meter

(G) Display unit

(H) Sensor controller

(I) Switching power supply

(J) Proximity sensor

(K) Photo electric sensor

(L) Pressure sensor

(M) Rotary encoder

(N) Stepping motor & Driver & Controller

(O) Graphic panel

(P) Field network device

(Q) Production stoppage models & replacement

# MT4N Series

## ■ Functions

### ◎ AC frequency measurement function

#### (PA1 : *dISP* mode)

It measures the frequency of input signal when it is AC input. The measuring range is 0.1~9999Hz, it is changed according to the decimal point position.

Please refer to the below table.

Decimal point position	0.000	0.00	0.0	0
Measurement range	0.100~9.999Hz	0.10~99.99Hz	0.1~999.9Hz	1~9999Hz

It is also available to adjust the high limit of gradient at *I nbH* and *I nbE* mode of PA 1.

To measure correctly, the input signal is over F.S 10% of measuring range should be supplied.

### ◎ Zero adjustment function(Deviation correction function of low limit display value)

It sets the display value as a zero when min. input is supplied at measuring input terminal. It can be corrected an error of zero with 3 types as below.

The deviation value is corrected normally with external Hold/Zero terminal can be saved automatically *I nbL* mode of PA 1 group.

Type	Input the deviation value	Front key	Input the external signal
Description	Input the deviation value in <i>I nbL</i> mode of PA 1	Input the minimum value at the measuring input terminal, press $\square$ , $\triangle$ key together for 3 sec.	Short-circuit external No.11, 12 Hold/Zero terminal over min.50ms.

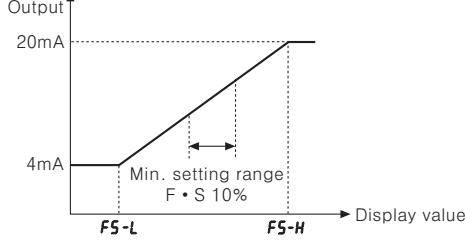
\*Please refer to Low display correction of error correction function for inputting the correction value.

### ◎ Current output(DC4~20mA) scale function (PA2 : *FS-H* / *FS-L* mode)

It outputs DC4~20mA within the setting range of *FS-H* and *FS-L* mode to transmit the current display value to the other. When it is over the setting value of *FS-H* of PA 2, 20mA is outputted and 4mA for it is under the setting value of *FS-L* mode. (The resolution is 12,000 division and it depends on full scale range.)

\*The min. setting interval between *FS-H* and *FS-L* is 10% F • S, it is fixed as 10% of the setting value when it is small.

\*In case, the display value is under *FS-L*, 4mA is outputted and 20mA for it is over the setting value of *FS-H* mode.



### ◎ Initialization function

It initializes as the factory default status. If press  $\square$ ,  $\blacktriangledown$ ,  $\triangle$  keys together for 2sec. in **RUN** mode, *I nbL* mode and the setting value(*no*) is displayed every 0.5 sec. and it will be initialized as the factory default when press **MD** key after change *no* → **YES**.

### ◎ Error display function

Display	Description
HHHH	Flashing when measuring input is exceeded the max. allowable input(110%)
LLLL	Flashing when measuring input is exceeded the minx. allowable input(-10%)
d-HH	Flashing when display input is exceeded <b>H-SC</b> setting value
d-LL	Flashing when display input is exceeded <b>L-SC</b> setting value
F-HH	Flashing when input frequency is exceeded the max. display value of measuring range
ovEr	Flashing when it exceeds zero range( $\pm 99$ ).

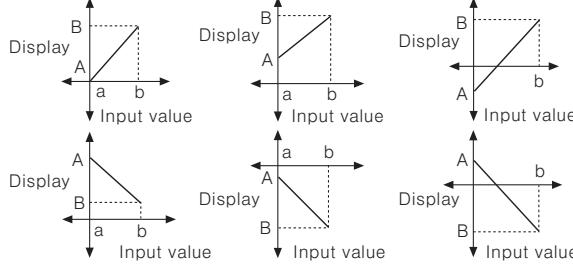
\*An error is cancelled automatically when it is in the measuring and display range.

\*"LLL" is displayed when the measuring input is 4~20mA.

\*After flashing "ovEr" 2 times when it exceeds the zero range, it returns to RUN mode.

### ◎ Prescale function(PA 1 : **H-SC** / **L-SC** mode)

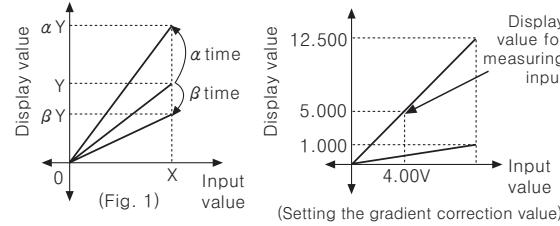
This function is to display setting(-1999 to 9999) of particular High/Low-limit value in order to display High/Low-limit value of measuring input. If measuring inputs are a or b and particular values are A or B, it will display a=A, b=B as below graph.



### ◎ Gradient correction function(PA1 : *I nbH* mode)

This function is to correct a gradient of prescale value and display value. (Fig.1)Display value Y can be used as  $\alpha$ ,  $\beta$  times against X input value by correction function [*I nbH*]. And also can be used as correction function of max. display value [**H-SC**]. Adjustment range is 0.100 to 5.000 and multiply current gradient.

Ex) When 4.00VDC, display 5.000 for measuring input 0~10.00V



① Set the decimal position as '0000' for prescale value.

② In order to display 5.000 when measuring input is 4.00VDC, 12.500 will be displayed when max. input value is 10.00V, but it cannot set the max. setting value.

③ Set gradient correction setting value [*I nbH*] × High scale value [**H-SC**] = 12.500 as follows.

④ It displays 5.000 when measuring input is 4.00V after set is finished.

Setting	<b>H-SC</b>	<b>L-SC</b>	<i>I nbH</i>	Other
①	Disable	0.000	1.000	_____
②	6.250	0.000	2.000	_____
③	3.125	0.000	4.000	It will be the same display value.
④	2.500	0.000	5.000	_____

# Multi Panel Meter

## ◎Correction function(PA 1: I nbH / I nbL mode)

This function is for correcting display value error of measuring input.

**I nbH** : 5.000 ~ 0.100 [Correct gradient (%) of High value]

**I nbL** : -99 ~ +99 [Adjust deviation of Low value]

Ex) When measuring input range is 0~500VDC and a display value is 0.0~500.0.

### ●Correction of high display value

When the measuring input is 500V, the deviation correction value is  $5000 \div 5005 = 0.999$  for high display value "500.5" and it is available to correct the gradient of high display value when set 0.999 at **I nbH**. The reset part of the decimal point is not calculated.

### ●Correction of low display value

When the measuring input is 0V, the deviation of low display value can be cleared if "-12" is set at **I nbL** when low display value is "001.2".

The reset part of the decimal point is not calculated.

## ◎Display cycle delay function

### (PA 2 : dIS.t mode)

It is difficult to read as display value follows the measuring input value. Display when the measuring input value is fluctuating. In this case, it is able to make display value stable by delaying display cycle. Display cycle displaying time can be changed in **dIS.t** mode of Parameter 2(Setting range:0.1~5.0sec.). If selecting **5.0**, the display value is displayed every 5sec. averaging input value for 5sec.

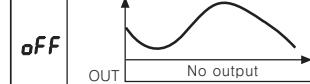
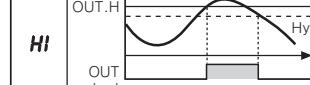
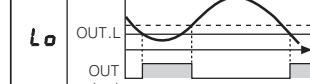
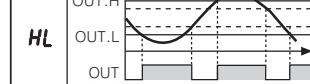
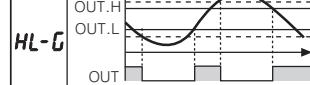
## ◎Monitoring function for peak value of display

### (PA 0: HPEU / LPEU mode)

It is to observe Max./Min. value of display value by current display value and then display the data in **HPEU** mode and **LPEU** mode of parameter 0.

Set delay time(0~30sec.) in **PEU.t** mode of parameter 2 in order to prevent malfunction caused by initial over current or over voltage, when it monitor the peak value. Delay time is 0~30sec. and it will monitor the peak value after setting time. If press one among **[◀]**, **[▼]**, **[▲]** keys at **HPEU** and **LPEU** mode of parameter 0, monitoring data will be initialized.

## ◎Preset output mode(PA 2 : oUT1 / oUT2 mode)

Mode	Output operation	Operation
<b>oFF</b>		No output
<b>HI</b>		Period ON :Display value ≥ OUT.H Period OFF :Display value ≤ OUT.H-Hys
<b>Lo</b>		Period ON :Display value ≤ OUT.H Period OFF :Display value ≥ OUT.H+Hys
<b>HL</b>		Period ON :Display value ≤ OUT.L or Display value ≥ OUT.H
<b>HL-G</b>		Period ON :OUT.L ≤ Display value ≤ OUT.H

\*Set output mode separately for each OUT1/OUT2.

\*OUT1/OUT2 are operated individually depending on output operation mode.

\*Setting value mode of parameter group 0 is displayed by output operation mode selection.

\*GO is outputted within the period both OUT1/OUT2 are off.  
(NPN/PNP Open collector output type.)

## □Communication output

(Refer to E-33 ~ E-34.)

- (A) Counter
- (B) Timer
- (C) Temp. controller
- (D) Power controller
- (E) Panel meter**
- (F) Tacho/ Speed/ Pulse meter
- (G) Display unit
- (H) Sensor controller
- (I) Switching power supply
- (J) Proximity sensor
- (K) Photo electric sensor
- (L) Pressure sensor
- (M) Rotary encoder
- (N) Stepping motor & Driver & Controller
- (O) Graphic panel
- (P) Field network device
- (Q) Production stoppage models & replacement