DIN W48×H24mm Small Size Digital Multi Panel Meter

▣ Features

- Various input/output options (by model)
  - Input options: DC voltage, DC current, AC voltage, AC current
  - Output options: RS485 communication output, PV transmission output (DC 4-20mA), NPN/PNP open collector output, relay contact output
    ※default option: indicator/no output
- Maximum allowed input: 50VDC, 250VAC, DC500mA, AC5A
- Display range: -1999 to 9999
- High/low-limit display scale function
- AC frequency measurement (range: 0.1 to 9999Hz)
- Various functions: peak display value monitoring, display cycle delay, zero-point adjustment, peak display value correction, PV transmission output (DC4-20mA) scale
- Power supply: 12-24VDC/VAC, 100-240VAC

Please read "Safety Considerations" in the instruction manual before using.

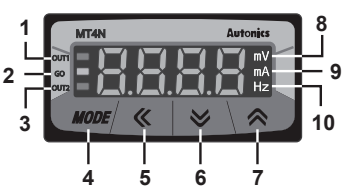
▣ Ordering Information

MT **4** **N** – **DV** – **E** **N**

Output	**N**	Indicator
	0	Relay (OUT1/OUT2) output
	1	NPN open collector output (OUT1, GO, OUT2)
	2	PNP open collector output (OUT1, GO, OUT2)
	3	Relay (OUT1)+transmission (DC4-20mA) output
	4	Relay (OUT1)+RS485 communication output
	5	Relay (OUT1/OUT2)+transmission (DC4-20mA) output
Power supply	**E**	12-24VDC, 12-24VAC 50/60Hz
	4	100-240AC 50/60Hz
Measurement function (input)	**DV**	DC voltage
	DA	DC current
	AV	AC voltage
	AA	AC current
Size	**N**	DIN W48×H24mm
Digit	**4**	9999 (4-digit)
Item	**MT**	Multi Meter

※To measure the current over DC500mA, please select DV type because the shunt should be used.
※In case of selecting frequency display, no output will be provided even if it is output support models. (main output, sub output and RS485 communication output)

▣ Unit Description



1. **OUT1**: Preset output of OUT1
2. **GO**: Preset Go output of OUT1/OUT2
3. **OUT2**: Preset output of OUT2
4. MODE **key**: Mode key
5. ≪ **key**: Shift key
6. ≫ **key**: Down key
7. ≫ **key**: 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-□-□N.
※MT4N-□-□3, □4 model has output display part of OUT1 only.

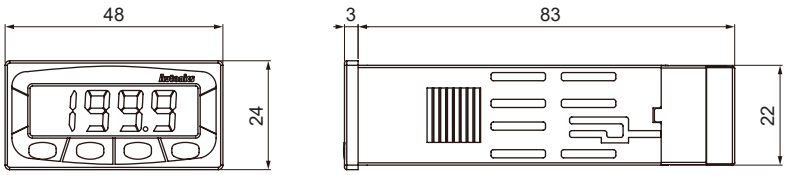
▣ Specifications

Series	MT4N-DV-E□ MT4N-DA-E□	MT4N-AV-E□ MT4N-AA-E□	MT4N-DV-4□ MT4N-DA-4□	MT4N-AV-4□ MT4N-AA-4□
Measurement input	DC voltage, current	AC voltage, current, frequency	DC voltage, current	AC voltage, current, frequency
Power supply	12-24VDC⎓, 12-24VAC~ 50/60Hz		100-240VAC~ 50/60Hz	
Allowable voltage range	90 to 110%			
Power consumption	DC: 3W, AC: 5VA For MT4N-□-E5- DC: 5W, AC: 8VA		5VA	
Display method	7-segment LCD display (red) (character height: 9mm)			
Display accuracy	• 23℃±5℃ - DC input: F.S. ±0.1% rdg ±2-digit / AC input: F.S. ±0.3% rdg ±3-digit ※For 5A terminal of current Input, F.S. +0.3% rdg ±3-digit • -10℃ to 50℃ - DC/AC input: F.S. ±0.5% rdg ±3-digit			
Max. allowable input	110% F.S. for each measured input range			
A/D conversion method	Practical oversampling using successive approximation ADC			
Sampling cycle	DC input: 50ms, AC input: 16.6ms			
Max. display range	-1999 to 9999 (4-digit)			
Preset output	• Relay output - Contact capacity: 125VAC~ 0.3A, 30VDC⎓ 1A/Contact composition: N.O (1a) • NPN/PNP open collector output - Max. 12-24VDC⎓ ±2V 50mA (resistive load)			
Sub output (transmission output)	• RS485 comm. output - Baud rate: 1,200/2,400/4,800/9,600, Communication method: 2-wire half duplex, Synchronous method: Asynchronous method, Protocol: Modbus type • DC4-20mA output - Resolution: 12,000 division (load resistance max. 600Ω)			
AC measurement※1	Selectable RMS or AVG			
Frequency measurement※1	Measurement range: 0.100 to 9999Hz (variable by decimal point position)			
Hold function※2	Includes (external hold function)			
Insulation resistance	Over 20MΩ (at 500VDC megger)			
Dielectric strength	1000VAC 50/60Hz for 1 min (between external terminal and case)		2000VAC 50/60Hz for 1 min (between external terminal and case)	
Noise immunity	±2kV the square wave noise (pulse width: 1μs) by the noise simulator			
Vibration – Mechanical	0.75mm amplitude at frequency of 10 to 55Hz (for 1 min) in each X, Y, Z direction for 2 hours			
Vibration – Malfunction	0.5mm amplitude at frequency of 10 to 55Hz (for 1 min) in each X, Y, Z direction for 10 min			
Shock – Mechanical	100m/s² (approx. 10G) in each X, Y, Z direction for 3 times			
Shock – Malfunction	300m/s² (approx. 30G) in each X, Y, Z direction for 3 times			
Environment – Ambient temperature	-10 to 50℃, storage: -20 to 60℃			
Environment – Ambient humidity	35 to 85%RH, storage: 35 to 85%RH			
Insulation type	Double insulation or reinforced insulation (mark: ⧈, dielectric strength between the measurement input part and the power part: 1kV)			
Approval	CE		—	
Weight※3	Approx. 127g (approx. 64g)			

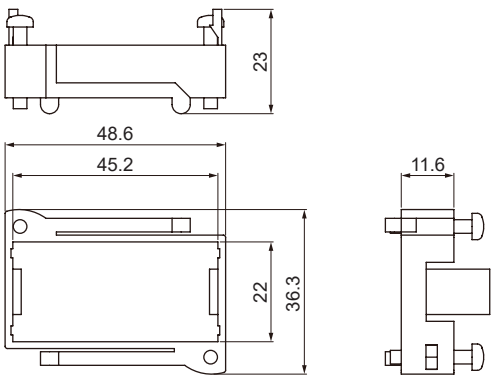
※1: AC, frequency measurement functions are only for AC measurement input type.
※2: The indicator has no Hold function.
※3: The weight includes packaging. The weight in parenthesis is for unit only.
※Environment resistance is rated at no freezing or condensation.

▣ Dimensions

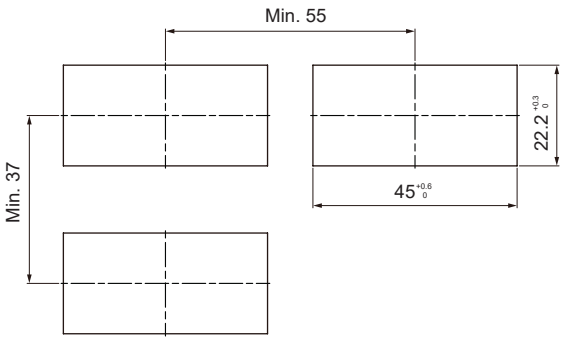
(unit: mm)



● **Bracket**

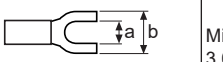


● **Panel cut-out**



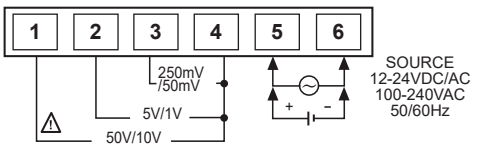
▣ Connections

※Use terminals of size specified below.

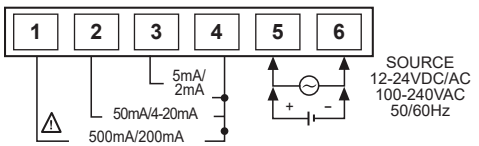
	a	b
 <Forked>	Min. 3.0mm	Min. 6.0mm

◎ Measurement input terminal connection

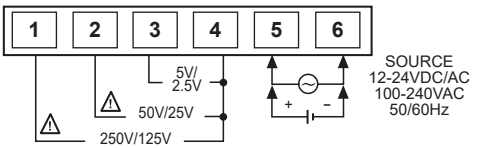
● **MT4N-DV-** □□



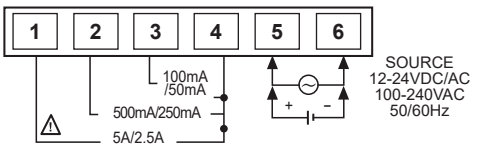
● **MT4N-DA-** □□



● **MT4N-AV-** □□

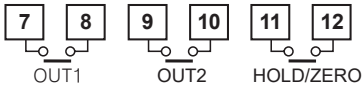


● **MT4N-AA-** □□

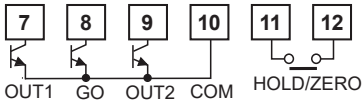


◎ Output terminal connection

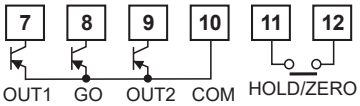
● **MT4N-□-□0**
(Relay output)



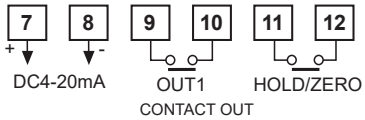
● **MT4N-□-□**
(NPN open collector output)



● **MT4N-□-□2**
(PNP open collector output)

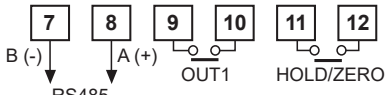


● **MT4N-□-□3**
(Relay+transmission (DC4-20mA) output)



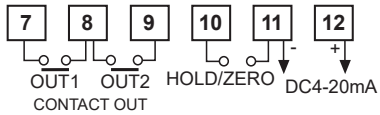
CONTACT OUT
: 125VAC 0.3A 1a, 30VDC 1A 1a RESISTIVE LOAD

● **MT4N-□-□4**
(Relay+RS485 communication output)



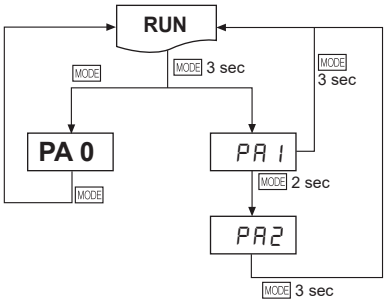
CONTACT OUT
: 125VAC 0.3A 1a, 30VDC 1A 1a RESISTIVE LOAD

● **MT4N-□-□5**
(Relay+transmission (DC4-20mA) output)



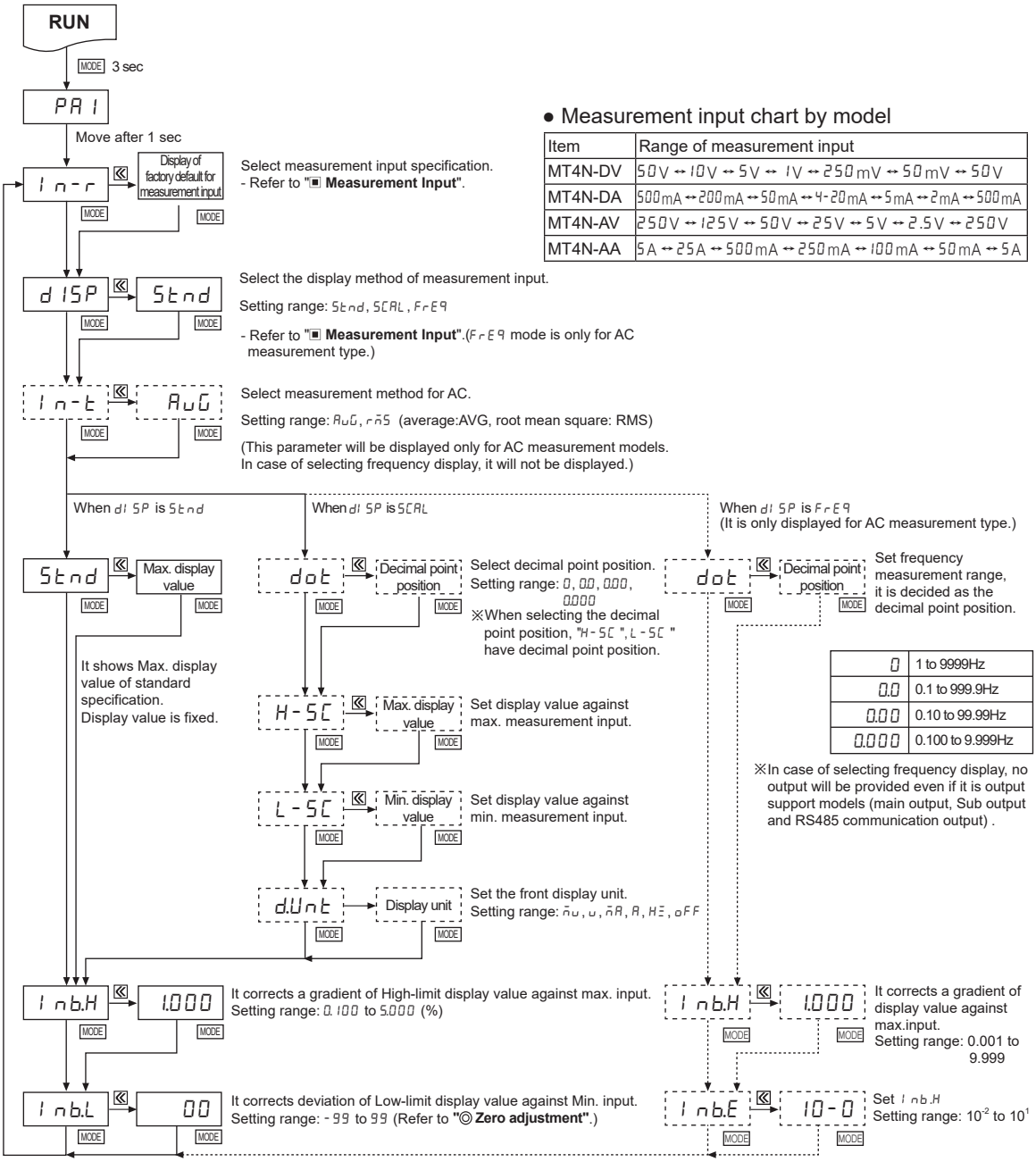
CONTACT OUT
: 125VAC 0.3A 1a, 30VDC 1A 1a RESISTIVE LOAD

▣ Parameter Setting



※Press MODE key in **RUN** mode and it enters **PA 0** group.
※Press MODE key for over 3 sec in **RUN** mode, it displays [PA 1].
※Press MODE key for over 5 sec in **RUN** mode, it displays [PA2] after [PA 1].
When pressing MODE key continually, it stops displaying at [PA2].
※It is advanced to current display parameter releasing MODE key at [PA 1] or [PA2].
※Press MODE key for over 3 sec in any parameter groups, it returns to **RUN** mode.
※If any key is not entered for 60 sec in each parameter, it returns to **RUN** mode.
※After returning to **RUN** mode, press MODE key within 2 sec, it returns to previous parameter. (Refer to descriptions of each parameter group.)
※**PA 0** group cannot be entered when preset output mode of [PA2] group is oFF.

▣ Parameter 1 Group



● Measurement input chart by model

Item	Range of measurement input
MT4N-DV	50V ↔ 10V ↔ 5V ↔ 1V ↔ 250mV ↔ 50mV ↔ 50V
MT4N-DA	500mA ↔ 200mA ↔ 50mA ↔ 4-20mA ↔ 5mA ↔ 2mA ↔ 500mA
MT4N-AV	250V ↔ 125V ↔ 50V ↔ 25V ↔ 5V ↔ 2.5V ↔ 250V
MT4N-AA	5A ↔ 2.5A ↔ 500mA ↔ 250mA ↔ 100mA ↔ 50mA ↔ 5A

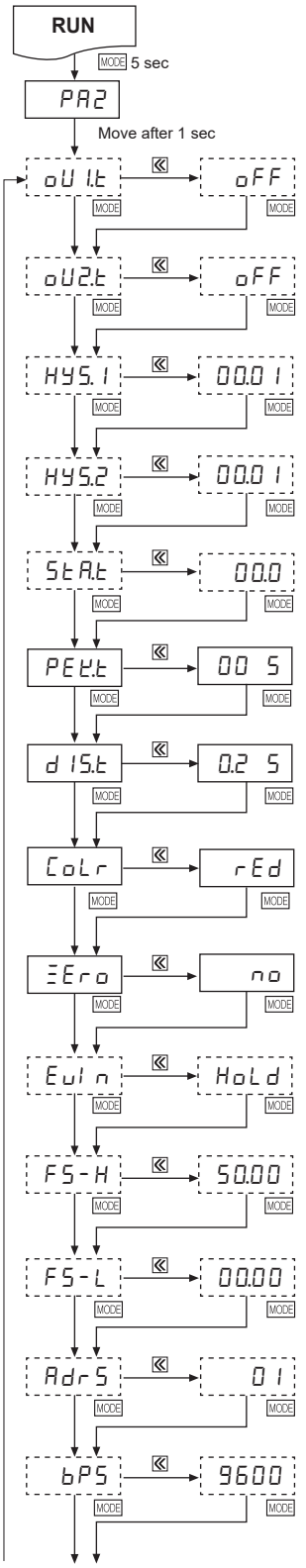
※After setting each mode, press MODE key for 2 sec to return to **RUN**.
※If any key is untouched for 60 sec after advance to Parameter, it will return to **RUN**.

◎ Factory defaults

Parameter	MT4N-DV	MT4N-DA	MT4N-AV	MT4N-AA
In-r	50	500	250	5
dI SP	Stnd	Stnd	Stnd	Stnd
In-t	—	—	AvG	AvG
Stnd	50.00	500.0	250.0	5.000
d-Unt	u	A	u	A

Parameter	MT4N-DV	MT4N-DA	MT4N-AV	MT4N-AA
In-H	1.000	1.000	1.000	1.000
In-L	00	00	00	00
dot	0.00	0.0	0.0	0.000
In-E	—	—	10-0	10-0

▣ Parameter 2 Group



Select Preset output mode of OUT1. (But, it is only displayed in OUT1 output included model.)
Setting range: oFF, HI, Lo, HL, HL-G

Select Preset output mode of OUT2. (But, it is only displayed in OUT2 output included model.)
Setting range: oFF, HI, Lo, HL, HL-G

Select Preset hysteresis of OUT1.
The range is within 10% of max. display range (unit: digit).
※ oUt1 mode is oFF, it is not displayed.

Select Preset hysteresis of OUT2.
The range is within 10% of max. display range (unit: digit).
※oUt2 mode is oFF, it is not displayed.

Set startup compensation time.
Setting range: 00 to 99.9 sec

When initially supplying power, delays monitoring of high-limit/low-limit value of display value for the set time.
Setting range: 00 to 30 sec
※If it is set to 00 sec [00 5], parameters of high-peak monitoring value [HPEt]/low-limit monitoring value [LPEt] in the parameter 0 group will be not displayed.

Set display cycle and also variable sets by 0.1 sec.
Setting range: 0.1 to 5.0 sec

Selectable color with 5 modes.
Setting range: rEd, Grn, YEL, r-G, G-r
rEd, Grn, YEL: Display with 1 color. r-G, G-r: Color is changed when error occurs.
E.g.) r-G: Red is standard and green when error occurs.
※Color is changed only when error in "▣ **Error Display Function**" occurs excluding 'over'.

Select zero function with operation at front.
When ≪ + ≪Key are pressed for 3 sec to set YES, it will be zero function and the deviation value is saved automatically at Inbt mode.

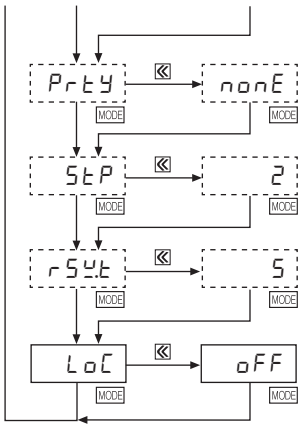
Select HoLd input with 11, 12 terminal or zero function for external signal.
(set with ≪, ≪ Key)
HoLd: Holding display value, ZEro: Zero function using Hold/Zero terminal

Set the high limit value, output point of current output 20mA.
(When changing measurement input and prescale mode, it is changed automatically as maximum value of input range.)

Set the low limit value, output point of current output 4mA.
(When changing measurement input and prescale mode, it is changed automatically as minimum value of input range.)

Set the address of RS485 communication output.
Setting range: 01 to 99

Select baud rate of RS485 communication output.
Setting range: 9600, 4800, 2400, 1200



Set parity bit of RS485 communication.
Setting range: nonE, EuEn, odd

Set stop bit of RS485 communication.
Setting range: 1, 2

Set response wait time of RS485 communication.
Setting range: 5 to 99

Set key lock function and select from 4 types.
Setting range: oFF, LoC 1, LoC2, LoC3

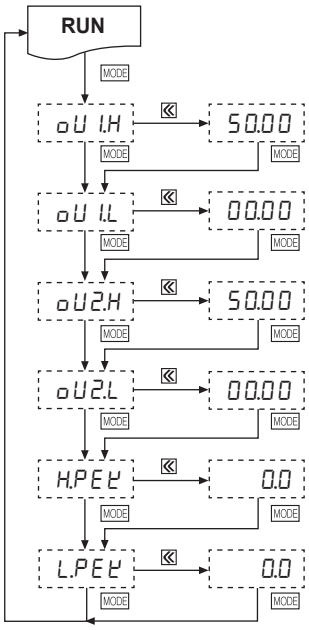
oFF	Disable to lock keys
LoC 1	Lock Parameter 1
LoC2	Lock Parameter 1, 2
LoC3	Lock Parameter 0, 1 and 2

※The dotted mode is only displayed for output type.
※After setting each mode, press [MODE] key for 2 sec to return to **RUN** mode.
※If any key is untouched for 60 sec 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.

◎ Factory defaults

Parameter	MT4N-DV	MT4N-DA	MT4N-AV	MT4N-AA	Parameter	MT4N-DV	MT4N-DA	MT4N-AV	MT4N-AA
oU 1t	oFF	oFF	oFF	oFF	ΞErO	no	no	no	no
oU2t	oFF	oFF	oFF	oFF	Eul n	HoLd	HoLd	HoLd	HoLd
HYS.1	00.01	000.1	000.1	0.001	FS-H	50.00	500.0	250.0	5.000
HYS.2	00.01	000.1	000.1	0.001	FS-L	00.00	000.0	0.0	0.000
PEVt	00 5	00 5	00 5	00 5	AdrS	01	01	01	01
d15t	0.2 5	0.2 5	0.2 5	0.2 5	bPS	9600	9600	9600	9600
CoLr	rEd	rEd	rEd	rEd	LoC	oFF	oFF	oFF	oFF

▣ Parameter 0 Group



Set High-limit preset value of oU 1H. (set with [≪], [≫], [≫] key)
※It is displayed when set the preset only.
When set oFF in oU 1t mode of the parameter 2 group, the parameter is not displayed.

Set Low-limit preset value of oU 1L. (set with [≪], [≫], [≫] key)
※It is displayed when set the preset only.
When set oFF in oU 1t mode of the parameter 2 group, the parameter is not displayed.

Set High-limit preset value of oU2H. (set with [≪], [≫], [≫] key)
※It is displayed when set the preset only.
When set oFF in oU2t mode of the parameter 2 group, the parameter is not displayed.

Set Low-limit preset value of oU2L. (set with [≪], [≫], [≫] key)
※It is displayed when set the preset only.
When set oFF in oU2t mode of the parameter 2 group, the parameter is not displayed.

It shows High-limit monitoring value while it is **RUN** status.
It will be reset by pressing any [≪], [≫], [≫] key.
※H.PEV parameter is not displayed when PEVt parameter is set as 00 sec [00 5] at the parameter 2 group.

It shows Low-limit monitoring value while it is **RUN** status.
It will be reset by pressing any [≪], [≫], [≫] key.
※L.PEV parameter is not displayed when PEVt parameter is set as 00 sec [00 5] at the parameter 2 group.

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

◎ Factory defaults

Parameter	MT4N-DV	MT4N-DA	MT4N-AV	MT4N-AA	Parameter	MT4N-DV	MT4N-DA	MT4N-AV	MT4N-AA
oU 1H	50.00	50.00	250.0	5.000	oU2L	00.00	000.0	000.0	0.000
oU 1L	00.00	000.0	000.0	0.000	H.PEV	0.00	0.0	0.0	0.000
oU2H	50.00	500.0	250.0	5.000	L.PEV	0.00	0.0	0.0	0.000

▣ Measurement Input

Type	Measurement input range		Input impedance	Display range [St nd]	Prescale display range [SCAL]
DC voltage	0-50V	[50V]	434.35kΩ	0.00 to 50.00 (fixed)	
	0-10V	[10V]	434.35kΩ	0.00 to 10.00 (fixed)	
	0-5V	[5V]	43.35kΩ	0.000 to 5.000 (fixed)	
	0-1V	[1V]	43.35kΩ	0.000 to 1.000 (fixed)	
	0-250mV	[250mV]	2.15kΩ	0.0 to 250.0 (fixed)	
	0-50mV	[50mV]	2.15kΩ	0.00 to 50.00 (fixed)	
DC current	0-500mA	[500mA]	0.1Ω	0.0 to 500.0 (fixed)	
	0-200mA	[200mA]	0.1Ω	0.0 to 200.0 (fixed)	
	0-50mA	[50mA]	1.1Ω	0.00 to 50.00 (fixed)	
	4-20mA	[4-20mA]	1.1Ω	4.00 to 20.00 (fixed)	
	0-5mA	[5mA]	101.1Ω	0.000 to 5.000 (fixed)	
	0-2mA	[2mA]	101.1Ω	0.000 to 2.000 (fixed)	
AC voltage	0-250V	[250V]	1.109MΩ	0.0 to 250.0 (fixed)	
	0-125V	[125V]	1.109MΩ	0.0 to 125.0 (fixed)	
	0-50V	[50V]	200kΩ	0.00 to 50.00 (fixed)	
	0-25V	[25V]	222kΩ	0.00 to 25.00 (fixed)	
	0-5V	[5V]	22kΩ	0 000 to 5.000 (fixed)	
	0-2.5V	[2.5V]	22kΩ	0.000 to 2.500 (fixed)	
AC current	0-5A	[5A]	0.01Ω	0.000 to 5.000 (fixed)	
	0-2.5A	[2.5A]	0.01Ω	0.000 to 2.500 (fixed)	
	0-500mA	[500mA]	0.1Ω	0.0 to 500.0 (fixed)	
	0-250mA	[250mA]	0.1Ω	0.0 to 250.0 (fixed)	
	0-100mA	[100mA]	0.5Ω	0.0 to 100.0 (fixed)	
	0-50mA	[50mA]	0.5Ω	0.00 to 50.00 (fixed)	

dot	Display range
0	-1999 to 9999
0.0	-199.9 to 999.9
0.00	-19.99 to 99.99
0.000	-1.999 to 9.999

(Display range is variable according to decimal point position.)

※Connect to the input terminals whose 30% to 100% of the input range includs the max. value of the input range to measure.
When the max. input value is under the 30% of the input terminal range, display accuracy is degraded.
When the max. input value is over the 100%, it may result in input terminal damage.

※When "HHHH" or "LLLL" is flashes with a certain measurement input, disconnect power supply and then check the cables.

▣ Sold Separately

◎ Communication converter

- **SCM-WF48**
  (Wi-Fi to RS485·USB wireless communication converter)

- **SCM-US48I**
  (USB to RS485 converter)

- **SCM-38I**
  (RS232C to RS485 converter)

◎ Display Units (DS/DA-T Series)

- **DS/DA-T Series**
  (RS485 communication input type display unit)

DS16-□T

DS22/DA22-□T

DS40/DA40-□T

DS60/DA60-□T

※Connect RS485 communication input type display unit (DS/DA-T Series) and RS485 communication output model of MT4N Series, the display unit displays present value of the device without PC/PLC.

▣ Functions

◎ AC frequency measurement [PA1 group: dISP]

It measures input signal frequency when it is AC input.
It uses fixed decimal point[**PA 1**: dot], measured range can be changed by setting and measured range of decimal point position is as below chart. It is available to adjust the upper gradient at [**PA 1**: InP.H] and [**PA 1**: InP.E]. In order to measure frequency normally, input signal, over 10% F.S. of the measured range, should be supplied. Please select the proper point of measurement terminal.

① Measurement range

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

※Accuracy of frequency measurement:
Below 1kHz, F.S. ±0.1rdg ±2-digit.
From 1kHz to 10kHz, F.S. ±0.3rdg ±2-digit.

② InP.H: 0.100 to 9.999
[Gradient adjustment of high value]

③ InP.E: 10^{-2}, 10^{-1}, 10^{0}, 10^{1} [Index adjustment of InP.H]

◎ Zero adjustment [Deviation correction function of low limit display value]

It adjusts the display value of the optional configured input value as zero by force, zero point error can be adjusted with 3 ways as below. When zero point adjustment with front key and Hold terminal is finished normally, zero point of measurement terminal is displayed and the adjusted value at saved in InP.L automatically.

Operation	Input correction value	Front panel key	Input external signal
Description	**PA 1**:Direct input correction value method at InP.L	≪, ≪ keys are pressed for 3 sec at the RUN mode.	Short-circuit External hold terminal 11, 12 over min. 50m.

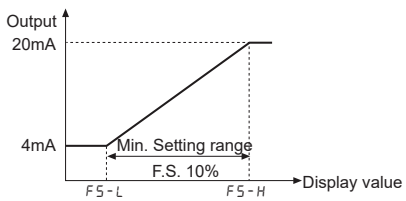
※Refer to "◎ **Error correction**", "◎ **Error display**" and "▣ **Parameter 2 Group**" for function and error.

◎ Transmission (DC4-20mA) output scale [PA 2 group: FS-H / FS-L]

It sets transmission output for the display value at the output current DC4-20mA.
It sets display value for 4mA at FS-L and 20mA at FS-H and the range between FS-H and FS-L should be 10%

※When min. set interval between FS-H and FS-L is set as under 10% F.S., it changed as over 10% F.S. automatically.

※Preset display value is fixed to output as 4mA at under FS-L and 20mA at over FS-H.



◎ Initialization

It initializes as the factory default status. If press ≪, ≪, ≪ keys together for 2 sec in **RUN** mode, InIt mode and the setting value [no] is displayed every 0.5 sec and it will be initialized as the factory default when press MODE key after change no → YES .

◎ Error display

Display	Description
HHHH	Flashes when measurement input is exceeded the max. allowable input (110%)
LLLL	Flashes when measurement input is exceeded the max. allowable input (-10%)
d-HH	Flashes when display input is exceeded max. display range (9999)
d-LL	Flashes when display input is exceeded min. display range (-1999)
F-HH	Flashes when measurement frequency is exceeded the max. measurement value (9999)
ouEr	Flashes when it exceeds zero adjustment range (±99)

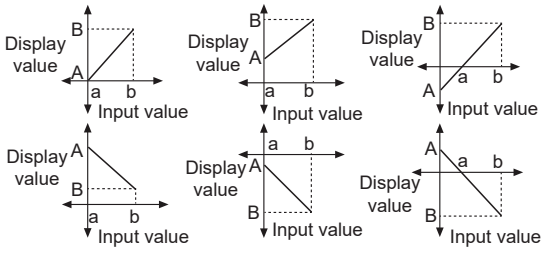
※Error display is released automatically when it is in the measured and display range.

※"LLLL" is displayed when the measurement input is DC4-20mA.

※After flashing "ouEr" 2 times when it exceeds the zero adjustment range, it returns to RUN mode.

◎ Display scale [PA 1 group: H-SC / L-SC]

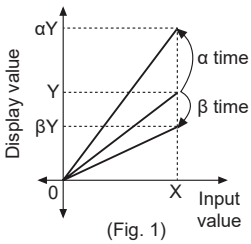
This function is to display setting (-1999 to 9999) of particular High/Low-limit value in order to display High/Low-limit value of measured input. If measured inputs are 'a' and 'b' and particular values are 'A' and 'B', it will display a=A, b=B as below graphs.



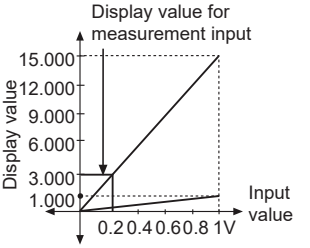
◎ Gradient correction [PA1 group: I nb.H]

It corrects the gradient of prescale value and display value. (Fig. 1) Display value Y can be adjusted as α, β times against X input value by correction function [I nb.H] and used as correction function of max. display value [H-SC]. Adjustment range is 0.100 to 5.000 and multiply current gradient.

E.g.) To display "3.000" in DC 200mV input for measured input specification as 0 to 1V.



(Fig. 1)



(example of gradient correction)

①Select 0-1VDC[1U] for measured input in Parameter 1.
②Standard specification in input: 0-1VDC and 1.000 therefore it has to be 15.000[H-SC] for 1VDC (input) in order to display 3.000 for 200mVDC (input) .
But it is unable due to setting range is 9.999.
③In this case, please check below chart.
Please set as I nb.H × H-SC = 15.000

Setting	H-SC	L-SC	I nb.H	Note
①	Disable	0.000	1.000	—
②	7.500	0.000	2.000	In this case, any setting methods display the same display value.
③	5.000	0.000	3.000	
④	3.750	0.000	4.000	
⑤	3.000	0.000	5.000	

◎ Error correction [PA 1 group: I nb.H / I nb.L]

It corrects display value error of measured input.
I nb.L : ±99 [Adjust deviation of low value]
I nb.H : 5.000 to 0.100 [Correct gradient (%) of high value]
Display value= (measured value × I nb.H) + I nb.L
E.g.) When the measured range is 0 to 500V, and the display range is 0 to 500.0. If the low display value is "1.2" to 0V input, set -12 as I nb.L value to display "0.0" by adjusting offset of the low value. The display value to 500V measured input varies by adjusting the offset of low value. If this display value is "501.0", calculate 500.0/501.0 (desired display value/the display value) , and set the 0.998 correction value as the I nb.H to display 500.0 by adjusting gradient of high value.
※The offset correction range of I nb.L is within -99 to 99 for D^{-0}, D^{-1} digit regardless of decimal point.

◎ Display cycle delay [PA 2 group: dI SL]

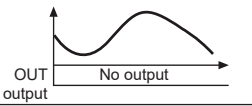
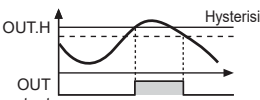
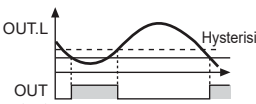
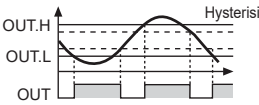
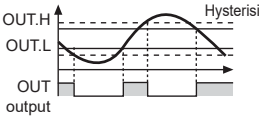
In some applications the measured input may fluctuate which in turn causes the display to fluctuate. By adjusting the display cycle delay function time in the dI SL of parameter 2, the operator can adjust the display time within a range of 0.1 sec to 5 sec For example, if the operator sets the display cycle time to 4.0 sec, the display value displayed will be the average input value over 4 sec and also will show any changes if any every 4 sec.

◎ Monitoring peak display value [PA 0 group: H.PEU / L.PEU, PA 2 group: PEUT]

It monitors max./min. value of display value based on the current displays value and then displays the data at H.PEU, L.PEU of parameter 0. Set the delay time (0 to 30 sec) at PEUT of parameter 2 in order to prevent malfunction caused by initial overcurrent or overvoltage, when monitoring the peak value.
Delay time is 0 to 30 sec and it starts to monitor the peak value after the set time. When pressing any one of ⟪ ⟫ ⟰ keys at H.PEU, L.PEU of parameter 0, the monitored data is initialized.

※H.PEU, L.PEU parameters is not displayed when monitoring delay time [PEUT] of parameter 2 group is set as 00 sec [00 S].

◎ Preset output operation mode [PA 2 group: oU1T / oU2T]

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

※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 MT4N/MT4Y/MT4W Command Features section.)