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, DC500mA, AC5A
- Display range : -1999 to 9999
- High/Low scale function for high performance
- **AC frequency measurement : Range 0.1 to 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, 100-240VAC

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

▣ Ordering information

MT 4 N – DV – E N

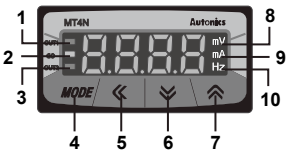
Output	N	Indicator(Without output function)
	0	Relay contact output
	1	NPN Open collector output(OUT1,GO,OUT2)
	2	PNP Open collector output(OUT1,GO,OUT2)
	3	Relay(OUT1)+PV transmission(DC4-20mA)output
	4	Relay(OUT1)+RS485 communication output
	5	Relay(OUT1/OUT2)+PV transmission(DC4-20mA)output

※Output(0 to 5) : Option

Power supply	E	12-24VDC/AC
	4	100-240AC
Measuring input	DV	DC Volt
	DA	DC Ampere
	AV	AC Volt
	AA	AC Ampere
Size	N	DIN W48×H24mm
Digit	4	9999(4digit)
Item	MT	Multi Meter

※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. MODE **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-□-□N.
※MT4N-□-□3, □4 model has output display part of OUT1 only.

■ Specifications

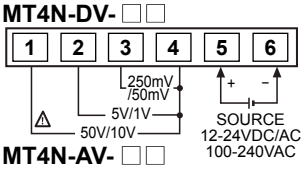
Series		MT4N-DV-E□ MT4N-DA-E□	MT4N-AV-E□ MT4N-AA-E□	MT4N-DV-4□ MT4N-DA-4□	MT4N-AV-4□ MT4N-AA-4□
Measurement input		DC voltage, ampere	AC voltage, ampere, Frequency	DC voltage, ampere	AC voltage, ampere, Frequency
Power supply		12-24VDC/AC		100-240VAC	
Allowable voltage range		90 to 110%			
Power consumption		DC: 3W, AC: 5VA / For MT4N-□□-E5 - DC: 5W, AC: 8VA		5VA	
Display method		7Segment LCD display, Character height: 9mm			
Display accuracy		• 23℃±5℃ - DC type: F.S. ±0.1% rdg ±2digit / AC type : F.S. ±0.3% rdg ±3digit DC/AC type : F.S. +0.3% rdg +3digit max. only for 5A terminal. • -10℃ to 50℃ - DC/AC type: F.S. ±0.5% rdg ±3digit			
Max. allowable input		110% F.S. for each measured input range			
A/D conversion method		Practical oversampling using successive approximation ADC			
Sampling cycle		DC type : 50ms, AC type : 16.6ms			
Max. display range		-1999 to 9999(4digit)			
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(Load resistance)			
Sub output (Transmission output)		• RS485 communication output - Baud rate : 1200/2400/4800/9600, Communication method : 2 wires half duplex, Synchronous method: Sub-synchronization, Protocol : Modbus type • DC4-20mA output - Resolution : 12,000 division(Load resistance max. 600Ω)			
AC measuring function※1		Selectable RMS or AVG			
Frequency measuring function※1		Measurement range : 0.100 to 9999Hz(Differ according to decimal point position)			
Hold function※2		Includes(Outer hold function)			
Insulation resistance		Min. 20MΩ(at 500VDC megger)			
Dielectric strength		1000VAC for 1 minute (Between external terminal and case)		2000VAC for 1 minute (Between external terminal and case)	
Noise strength		±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 of X, Y, Z directions for 2hour			
	Malfunction	0.5mm amplitude at frequency of 10 to 55Hz(for 1 min.) in each of X, Y, Z directions for 10minutes			
Shock	Mechanical	100m/s²(approx. 10G) in each of X, Y, Z directions for 3 times			
	Malfunction	300m/s²(approx. 30G) in each of X, Y, Z directions for 3 times			
Environment	Ambient temperature	-10 to 50℃, storage: -20 to 60℃			
	Ambient humidity	35 to 85%RH, storage: 35 to 85%RH			
Insulation type		Double insulation or reinforced insulation(Mark: ⊡, dielectric strength between the measuring input part and the power part: 1kV)			
Approval		CE		—	
Weight※3		Approx. 125g(approx. 64g)			

※1: AC measuring function, and frequency measuring function are only for AC measuring input type. ※2: The indicator has no Hold function.
※3: The weight with packaging and the weight in parentheses is only unit weight. ※Environment resistance is rated at no freezing or condensation.

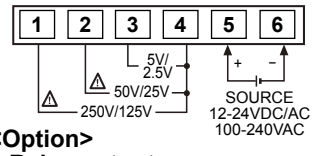
■ Connections

◎ Measuring input terminal connection

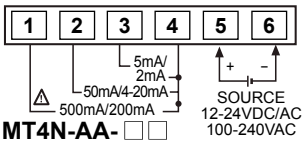
● **MT4N-DV-□□**



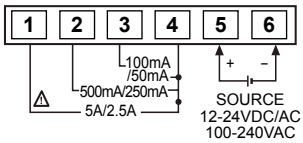
● **MT4N-AV-□□**



● **MT4N-DA-□□**

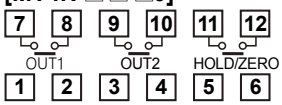


● **MT4N-AA-□□**

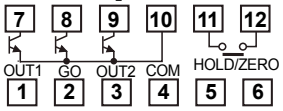


<Option>

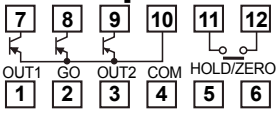
● **Relay output [MT4N-□□-□0]**



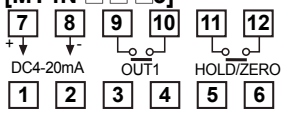
● **NPN open collector output [MT4N-□□-□]**



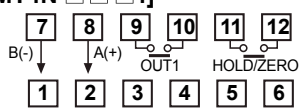
● **PNP open collector output [MT4N-□□-□2]**



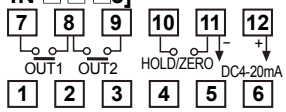
● **Relay+Current(DC4-20mA) output [MT4N-□□-□3]**



● **Relay+RS485 communication output [MT4N-□□-□4]**



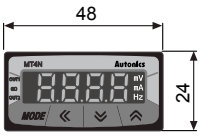
● **Relay 2+Current(DC4-20mA) output [MT4N-□□-□5]**

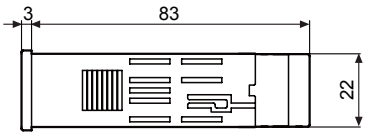


▣ Dimensions

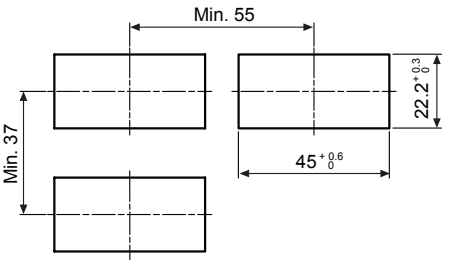
(unit: mm)

● **MT4N-□□-□N**





● **Panel cut-out**



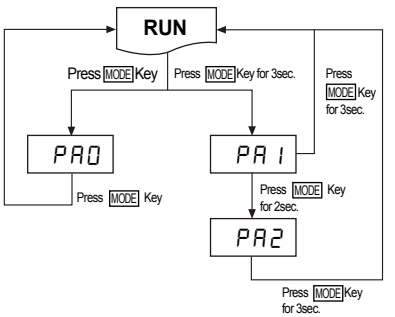
※Process the unit after consider the above recommened cut-out fully.

● **MT4N-□□-□0**

● **MT4N-□□-□1, □2**

● **MT4N-□□-□3, □4**

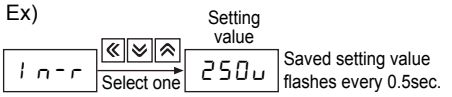
▣ Parameter group



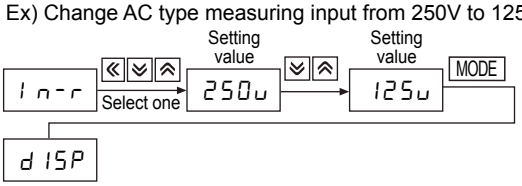
※Press MODE key in **RUN** status, it will advance to [PA0](Parameter 0) group.
※Press MODE key for 2 sec. in **RUN** mode, [PA1] is displayed.
※Press MODE key for 4 sec. in **RUN** mode, [PA1] is displayed after [PA2] When pressing MODE key continually, it stops displaying at[PA2].
※It is advanced to current display parameter releasing MODE key at [PA1] or [PA2].
※Press MODE key for 3 sec., it is returned to **RUN** at any position.
※If any key is not touched for 60 sec. in each parameter, it returns to **RUN** mode.
※After return to **RUN** mode, press MODE key within 2 sec., it returns to previous parameter.(Refer to the below descriptions for set parameter.)
※It cannot advance to [PA0] when preset output operation mode of [PA2] is **oFF**.

▣ Change the parameter setting value

1. Advance to the parameter to be changed when pressing MODE key continuously in RUN mode and releasing MODE key at the parameter.
   (Refer to "▣**Parameter setting**".)
2. When pressing MODE key in each parameter, the initial mode of the parameter is displayed.
   (Refer to the description of each parameter.)
3. When pressing one of ≪, ≫, ≫ keys in display mode, saved setting value is displayed.
   Ex)

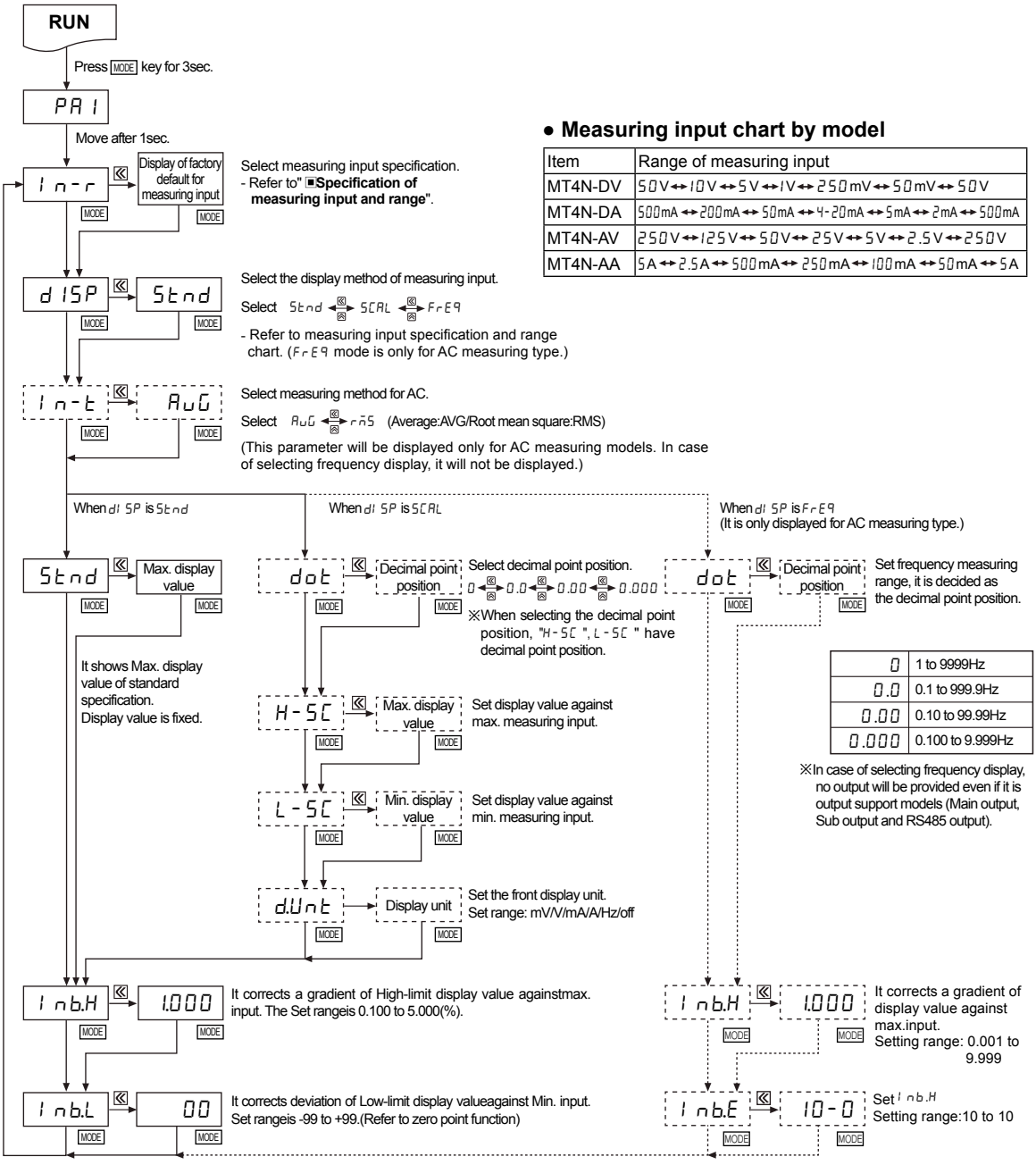


4. Change the setting value by ≫ or ≫ key when setting value flashes.
   Ex) Change AC type measuring input from 250V to 125V.



5. When confirming the setting value with MODE key, the changed setting value flashes twice and enters into the next setting.
6. It returns RUN mode from parameter by pressing MODE key for 3 sec.

▣ Parameter 1 group



● Measuring input chart by model

Item	Range of measuring 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

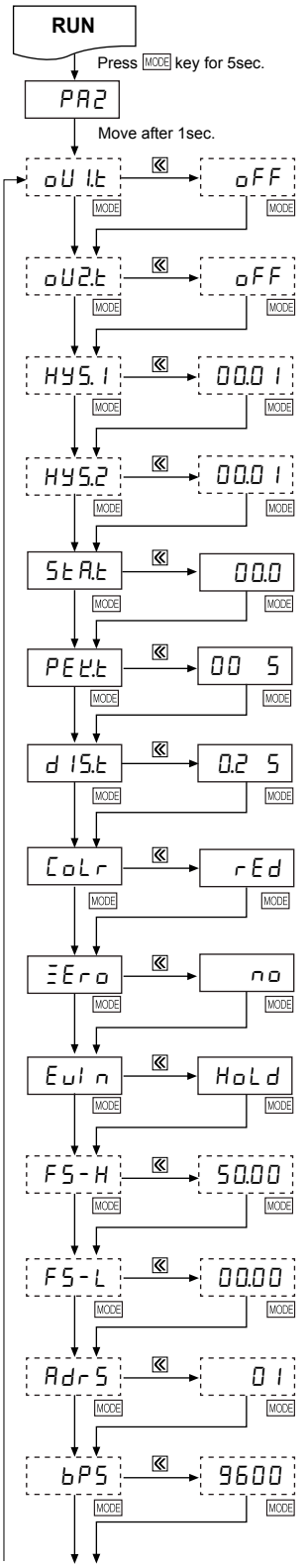
※After setting each mode, press MODE key for 2sec. to return to RUN.
※If any key is untouched for 60sec. after advance to Parameter, it will return to RUN.

◎ Factory defaults

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

Parameter	MT4N-DV	MT4N-DA	MT4N-AV	MT4N-AA
InbH	1.000	1.000	1.000	1.000
InbL	00	00	00	00
dot	0.00	0.0	0.0	0.000
InbE	—	—	10-0	10-0

▣ Parameter 2 group



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

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

Select Preset hysteresis of OUT1.
The range is within 10% of max. display range (Unit : digit) When resolution is over 10000, it is fixed as 9999.
※ oUt.t mode is oFF, it is not displayed.

Select Preset hysteresis of OUT2.
The range is within 10% of max. display range (Unit : digit) When resolution is over 10000, it is fixed as 9999.
※oU2.t mode is oFF, it is not displayed.

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

Set a monitoring delay time for displayed peak value.
Set range: 00 to 30sec.

Set a display cycle.
Set range: 0.1 to 5.0sec.

Selectable color with 5 modes.
rEd ◀▶ Grn ◀▶ YEL ◀▶ r-G ◀▶ G-r
red, green, yellow:Display with 1 color. Ur-G, G-r:Color is changed when error is occurred.
Ex) r-G: Red is standard and green when error is occurred.
※Color is changed only when error in "**▣Error display function**" is occurred 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 Inb.L mode.

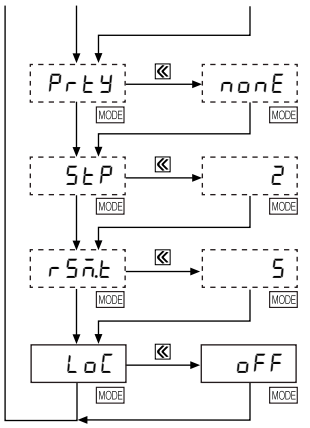
Select HoLd input with 11, 12 terminal or zero function for external signal.
(Set with △, ▽ Key)
HoLd : Holding display value, ZEro: Zero function using Hold/Zero terminal

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

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

Select Baud rate of RS485 communication output.
Set range: 9600 ◀▶ 4800 ◀▶ 2400 ◀▶ 1200



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

Set stop bit of RS485 communication.
Set range: 1 / 2

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

Set key lock function and select from 4 types.
oFF ↔ LoC1 ↔ LoC2 ↔ LoC3 ↔ oFF

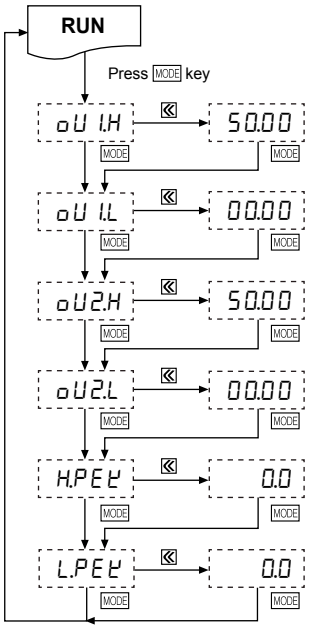
oFF	Disable to lock keys
LoC1	Lock Parameter 1
LoC2	Lock Parameter 1, 2
LoC3	Lock Parameter 0, 1 and 2

※The dotted mode is only displayed for output type.
※After setting each mode, press MODE key for 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% FUS, 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
oUt.t	oFF	oFF	oFF	oFF	ZEro	no	no	no	no
oU2.t	oFF	oFF	oFF	oFF	Evt n	Hold	Hold	Hold	Hold
HYS.1	00.01	000.1	000.1	0.001	FS-H	50.00	50.00	25.00	50.00
HYS.2	00.01	000.1	000.1	0.001	FS-L	00.00	00.00	00.00	00.00
PEr.t	00 5	00 5	00 5	00 5	AdrS	01	01	01	01
dI S.t	02. 5	02. 5	02. 5	02. 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 oU1.H. (Set with ≪, ∧, ∨ key)
※It is displayed when set the preset only.
When set oFF in oUt mode if **PA-2**, the parameter is not displayed.

Set Low-limit preset value of oU1.L. (Set with ≪, ∧, ∨ key)
※It is displayed when set the preset only.
When set oFF in oUt mode if **PA-2**, the parameter is not displayed.

Set High-limit preset value of oU2.H. (Set with ≪, ∧, ∨ key)
※It is displayed when set the preset only.
When set oFF in oU2.t mode if **PA-2**, the parameter is not displayed.

Set Low-limit preset value of oU2.L. (Set with ≪, ∧, ∨ key)
※It is displayed when set the preset only.
When set oFF in oU2.t 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 any ≪, ∧, ∨ key.

It shows Low-limit monitoring value while it is **RUN** status.
It will be reset by pressing any ≪, ∧, ∨ key.
※If "00" is set in PEr.t mode of **PA-2**, H.PEr and L.PEr 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
oU1.H	50.00	500.0	250.0	5.000	oU2.L	00.00	500	000.0	0.000
oU1.L	00.00	000.0	000.0	0.000	H.PEr	0.00	0.0	0.0	0.000
oU2.H	50.00	500.0	250.0	5.000	L.PEr	0.00	0.0	0.0	0.000

▣ Specification of measuring input and range

Type	Measuring input and range		Input impedance	Display range [St nd]	Prescale display range [SCAL]
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)	

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

(Display range depends on the decimal point position.)

※Please connect proper terminal its max. input voltage is within 30 to 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%.

▣ Functions

◎ AC frequency measurement [PA1 group: dI SP]

It measures input signal frequency when it is AC input.
It uses fixed decimal point[PA1: 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: InbH] and [PA 1: InbE]. 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 Measuring 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 ±2digit.
From 1kHz to 10kHz, F.S. ±0.3rdg ±2digit.

② InbH: 0.100 to 9.999
[Gradient adjustment of high value]

③ InbE : 10-2, 10-1, 10-0, 101[Index adjustment of InbH]

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

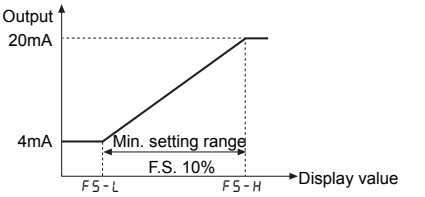
It adjusts the display value of the optional configured input value as zero by force, zero point error can be adjusted with 3 ways as below. When zero point adjustment with front key and Hold terminal is finished normally, zero point of measurement terminal is displayed and the adjusted value at saved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

Operation	Input correction value	Front panel key	External input signal
Description	PA 1:Direct input correction value method at InbL	[≪], [≫] keys are pressed for 3sec. at measuring mode.	Short-circuit External hold terminal no.11, 12 over min. 50m. ※It is enable to use in option mode.

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

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

It sets current output for the display value at the output current DC 4-20mA. It sets display value for 4mA at FS-L and 20mA at FS-H and the range between FS-H and FS-L should be10% F.S.(When it sets 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 2sec. in **RUN** mode, InLt 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.
ts are 'a' and 'b' and particular values are 'A' and 'B', it will display a=A, b=B as below graphs.

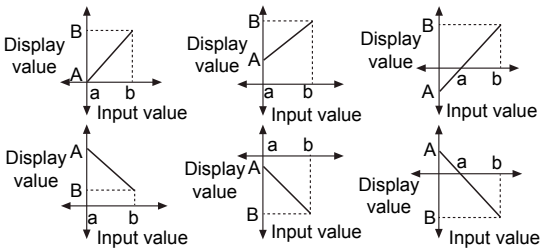
◎ Error display

Display	Description
HHHH	Flashed when measured input is exceeded the max. allowable input(110%)
LLLL	Flashes when measured input is exceeded the min. 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 measuring frequency is exceeded the max. measuring rvalue (9999)
oυEr	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 measuring input is 4-20mA.
※After flashing "oυEr"2 times when it exceeds the zero range, it returns to RUN mode.

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

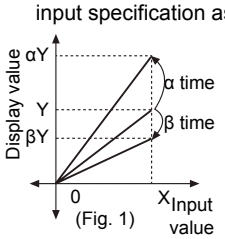
This function is to display setting(-1999 to 9999) of particular High/Low-limit value in order to display High/ Low-limit value of measured input. If measured inputs are 'a' and 'b' and particular values are 'A' and 'B', it will display a=A, b=B as below graphs.



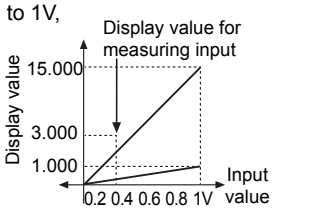
◎ Gradient correction[PA1: inb.H]

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

Ex) 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 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 Set rangeis 9.999.
③In this case, please check below chart. Please set as inb.H × H-SC = 15.000.

Setting	H-SC	L-SC	inb.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: inb.H / inb.L]

It corrects display value error of measured input.
inb.L : ±99 (Adjust deviation of low value)
inb.H : 5.000 to 0.100 [Correct gradient(%) of high value]
Display value=(Measured value × inb.H) + inb.L
Ex) 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 inb.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 inb.H to display 500.0 by adjusting gradient of high value.
※The offset correction range of inb.L is within -99 to 99 for D^{-0}, D^{-1} digit regardless of dot .

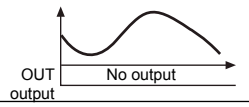
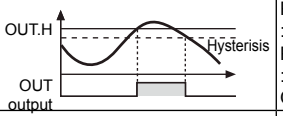
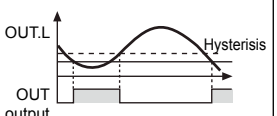
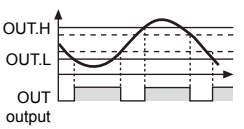
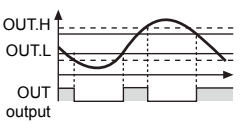
◎ Display cycle delay[PA 2 group : di 5.t]

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 5.t mode in 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]

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 PEU.t 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.
※Monitoring function is not indicate when the delay time is set as "00 5" at PEU.t of parameter 2.

◎ Preset output mode
[PA 2 group: oUt / 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 the L-44 to L-45 pages.)