<image/>	Autonics PANEL METER MT4N SERIES
<image/>	CE M A N U A L
<image/>	MTON Broke
<section-header>Par your gale y please read the following before using: Please read the following begins instructions and review term before using the unit. Please read the instructions and review term before using the unit. Please read the instructions and review term before using the unit. Please read the instructions and review term before using the unit. Please read the instructions are not followed. All content in your of ange may occur under general conductions. Please read the instructions are not followed. Instrument infor property. Is a required to instal fail-state device. Please read the instructions are not followed. Instrument infor property. Instrument information Instrument information Instrument informatinformation</section-header>	Thank you very much for selecting Autonics products.
Please term the calculate flat where them before using the unit. Please determ the calculate flat determs that followed. Advance of the calculate flat determs that followed determines the determines t	For your safety, please read the following before using.
<form></form>	Please keep these instructions and review them before using this unit.
Advance A watch A watch A state A watch A watch <t< td=""><td>Warning Serious injury may result if instructions are not followed. Caution Product may be damaged, or injury may result if instructions are not followed. With a following is an explanation of the symbols used in the operation manual.</td></t<>	Warning Serious injury may result if instructions are not followed. Caution Product may be damaged, or injury may result if instructions are not followed. With a following is an explanation of the symbols used in the operation manual.
A case of lange use with much levely (E: nuclear gover control, medical equipment, etc) within may cause improvement equipment. And use dry choice and the etc. Statement etc. In may cause improvement equipment, etc) within may cause improvement equipment. And use dry choice and the etc. Statement etc. In may cause improvement equipment, etc) within may cause improvement equipment. And use dry choice and etc. In may cause improvement equipment, etc) within may cause improvement equipment. And use dry choice and etc. In may cause improvement equipment, etc) within may cause improvement equipment. And use dry choice and etc. In may cause improvement equipment, etc) within may cause improvement equipment. And use dry choice and etc. In may cause improvement equipment, etc) within may cause improvement equipment. And use	Caution: Injury or danger may occur under special conditions.
All main encompared and particle terminals when it is power on: The case electric strock. The c	1. In case of using this unit with machinery (Ex: nuclear power control, medical equipment, ship, vehicle, tra airplane, combustion apparatus, safety device, crime/disaster prevention equipment, etc) which may caus damages to human life or property, it is required to install fail-safe device. It may cause a fire, human injury or damage to property.
b. Rule value and a final of ender of hermital when connecting power or measured input. Two cause a like. Image: control in the life cycle of the product or cause electric shock. Use this product of the rando durations. Use this product of the rando durations. Set and product of the rando durations. The concerning mean. A mean concerning mean. A mean concerning mean. The concerning mean. <td>2.it must be induited on the panel. It may cause electric shock. 3.Do not connect, inspect or repair terminals when it is power on. It may cause electric shock. 4.Do not disassemble or modify this unit. Please contact us if it is required.</td>	2.it must be induited on the panel. It may cause electric shock. 3.Do not connect, inspect or repair terminals when it is power on. It may cause electric shock. 4.Do not disassemble or modify this unit. Please contact us if it is required.
▲ Cardion In hurd it shall be build outdoor. I'm get about the bin outdoor. I'm get about the bin out use the product outdoos or all locations subject to the temperatures I'm get about the bin out use the product outdoos or all locations subject to the temperatures I'm get about the bin out use the product outdoos or all locations subject to the temperatures I'm get about the bin out out as the product and logies area were bot on terminal block with 0.74 I'm get about the bin out out as the product and cause a file I'm get about the bin out the product and cause a file I'm get about the diagon difference backt. I'm get about the product and t	It may cause a me or electric shock. 5-Please check the number of terminal when connecting power or measured input. It may cause a fire.
In the life cycle of the product or cause electric shock. Number of the state of t	A Caution 1.This unit shall not be used outdoors.
2. When connecting when AWC200.50mm? should be used and tighten screw bolt on terminal block with 0.74 to 3004m.strength. R may cause a mailuncitor or a fire due to contact failure. They cause in the fore of efficience. It may cause insult on failure. or character and the etc. Should be used by a contact failure. They tooken and the etc. Should be used by a contact failure. They tooken and the etc. Should be used by a contact failure. They tooken and the etc. Should be use beyond of the rated switching capacity of relay contact. Should be used by a contact met, contact failure. They tooken and the etc. Should be used by a contact failure. They tooken and the etc. Should be used by a contact failure. They contact failure failure beauty to the light, radit beauty what to or impact, etc. exists. They cause a fire or explosion. 1 Ordering information 1 Ordering information	It might shorten the life cycle of the product or cause electric shock. Use this product indoors only. Do not use the product outdoors or at locations subject to the temperatur humidity outside.(Example: rain, dirty, frost, sunlight, condensation, etc.)
3. Please observe the rated specification. The major shorther hile Cycle of the product and cause a fire. 3. Denotes the fire of explosing solvent. And use dy oldn. 3. In relating the mild, do not use where frammables or explosive gas, humidity, direct ray of the light, radi heat, vibration or impact, etc. crists. 3. Please wife projecting the polarity of measurement terminals. 3. Please wife polymethy after checking the polarity of measurement terminals. 3. The and the or explosive gas, humidity, direct ray of the light, radi heat, vibration or impact, etc. crists. 3. Please wife polymethy after checking the polarity of measurement terminals. 1. The answer the rate of explosive gas, humidity, direct ray of the light, radi heat, vibration or impact, etc. crists. 3. Please wife polymethy after checking the polarity of measurement terminals. 1. The answer the rate of explosive gas, humidity, direct ray of the light, radi heat, vibration or impact, etc. crists. 3. Please wife polymethy after checking the polarity of measurement terminals. 1. The context output (UTI) (COUT): 1. Please wife polymethy after checking the polarity of measurement terminals. 1. The dist of wife drags of the origin of the math is a structure of the light, radi heat is a structure output (UTI) (COUT): 1. Please wife polymethy after checking the polarity of measurement terminals. 1. The dist of the drags of the origin of the math is a structure output (UTI) (COUT): 1. Please wife polymethy is a structure output (UTI) (COUT): 1. Please wife polymethy is a structure output (UTI) (COUT): 1. Please wife polymethy is a structure output (UTI) (COUT): 1. Please wife polymethy is a structure output (UTI) (COUT): 1. Please wife polymethy is a structure output (UTI) (COUT): 2. Please wife polymethy is a structure output (UTI) (COUT): 2. Please wife polymethy is a structure output (UTI) (C	 When connecting wire, AWG20(0.50mm²) should be used and tighten screw bolt on terminal block with 0.7 to 0.90N-m strength. It may cause a malfunction or a fire due to contact failure.
It may cause insulation failure, contact metic, contact failure, risky troken and fire etc. Sho relates the mit, do not use water or an organic solvent. And use of y cloth. It may cause a fire and give an electric shock. Born of use this mit, about solvent of more solvent. And use of y cloth. It may cause a fire or mychosion. It may cause a fire or mychosion. It on clothed water or an organic solvent. And use of y cloth. It may cause a fire or mychosion. It on clothed water or an organic solvent. And use of y cloth. It may cause a fire or mychosion. It on clothed water or an organic solvent. And use of y cloth. It may cause a fire or mychosion. It on clothed water or an organic solvent. It also are into organic	3.Please observe the rated specification. It might shorten the life cycle of the product and cause a fire. 4.Do not use beyond of the rated switching capacity of relay contact.
6.Do not use this unit in place where flammable or explosive gas, humidity, direct ray of the light, radii heat, where dires or exists. It may cause a fire or explosion. To not inflow dust or wire dregs into the unit. It may cause a fire or explosion. B Ordering information M ↓ N ↓ D ↓ ↓ E N ↓ M Without adput function 1 B • N ∪ D ↓ E N ↓ M Without adput function 1 B • N ∪ D ↓ E N ↓ M Without adput function 1 B • N ∪ D ↓ E N ↓ B • D O D ↓ D ↓	It may cause insulation failure, contact melt, contact failure, relay broken and fire etc. 5.In cleaning the unit, do not use water or an organic solvent. And use dry cloth. It may cause a fire and give an electric shock.
7. Do not inflow dust or wide dregs into the unit. 8. Please wire properly after checking the polarity of measurement terminals. 8. Please wire properly after checking the polarity of measurement terminals. 9. Ordering information 10. The quarks after or mechanical mathemation. 10. Profering information 10. Profering informatin 10. Pr	6.Do not use this unit in place where flammable or explosive gas, humidity, direct ray of the light, ra heat, vibration or impact, etc. exists.
Barbass with property and checking the polarity of measurement terminals. If may cause in or explosion. If may cause in the oree in the explosion of the interval	The not inflow dust or wire dregs into the unit. It may cause a fire or mechanical malfunction.
■ Ordering information Image: Strategy output(2 points) Image: Strategy output(2 points) Image: Strategy output(3 points) Image: Strategy output(3 points) Image: Strategy output(3 poin	8.Please wire properly arter checking the polarity of measurement terminals. It may cause a fire or explosion.
0 Relay captific points) 0 Relay captific points) 0 Relay captific points) 1 2 PWO Dom collector output (DT1 GO.CUT2) 2 PWO Dom collector output (DT1 GO.CUT2) 3 Relay QUT3 PMS 4485 communication output 4 Relay Advance 0 DV DC Volt DA DC Ampere AA AC Ampere AA Congree AA Compare AA Compare AA Compare AA Compar	
2 PP-Updinated output_OUT_PR5485 communication output 3 Resy(OUT)=YF5485 communication output 4 Resy(OUT)=YF5485 communication output 9 Doc Ampere AA AC Voit AA AC Angere AA COTIN (BC OF Rest Couput of OUT) (BC OF Rest Couput of OUT) (BO OF Rest Couput of OUT) (BO OF Rest Couput of OUT) (BO OF Rest Couput of OUT) (BO OF Rest Couput of OUT) (BO OF Rest Couput of OUT) (BO OF Rest Couput of OUT) (BO OF Rest Couput of OUT) (BO OF Rest Couput of OUT) (BO OF Rest Couput of OUT) (BO OF Rest Couput of OUT) (BO OF Rest Couput of OUT) (BO OF Rest Couput of OUT) (BO OF Rest Couput of OUT)	O Relay output(2 points) Control output O Relay output(2011,GO,OUT2) NPN Open collector output(0UT1,GO,OUT2)
Power supply E 12.24VDC/AC DV DC Volt DV DC Ampere AX AC Out An A CAmpere Bit DOUT 1: Preset output of OUT1 Panel Cut-out Item MT Multi Meter Promot panel identification MT Multi Meter Item	Relay(OUT2)+PV transmission(DC4-20mA)output Relay(OUT2)+PS485 communication output
Input Imput Imput <t< td=""><td>Power supply E 12-24VDC/AC</td></t<>	Power supply E 12-24VDC/AC
UM UX UX <t< td=""><td></td></t<>	
Size N Din W48×H24mm Ltern M Din W48×H24mm 4 9999(4 Digit) ■ Front panel identification MT Multi Meter ■ Front panel identification MT Multi Meter ■ Construction MT Multi Meter ■ Go (2) 0.0011 : Preset output of OUT1 Panel cut-out Unit n MT Multi Meter ■ Construction MT Multi Meter ■ Terminal connection MT4N-DA- Imm Aunt ■ Source Source Source Source > Source Source Source Source > Source Source Source Source Source Out MT4N-AA- Ion-2400Ac Ion-2400Ac Out Source Source Source Source Source Source Source Source So	AV AC Volt AA AC Ampere
Item 4 9999(4 Digit) Image: Construction of the second secon	Size N DIN W48×H24mm
 Front panel identification Panel cut-out Panel cut-out	Item MT Multi Meter
$ \begin{array}{c} \hline \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $	Front panel identification Image: Content of the second
Terminal connection MTAN-DV- MTAN-DV- MTAN-DV- SOURCE	Image: Non-Stress
$ \begin{array}{c} 1 & 2 & 3 & 4 & 5 & 6 \\ \hline & & & & & \\ \hline & & & & & \\ \hline & & & &$	Terminal connection • MT4N-DV- • MT4N-DA- • MT4N-DA-
• MT4N-AV- • MT4N-AV- • MT4N-AV- • MT4N-AV- • MT4N-AV- • MT4N-AV- • MT4N-AV- • MT4N-AA- • MT4N-AA- • MT4N-AA- • MT4N-AA- • MT4N-AA- • MT4N-AA- • MT4N-AA- • MT4N-AA- • MT4N-AA- • 00-240vAC • Source • Sour	
$ \begin{array}{c} \begin{array}{c} \begin{array}{c} \\ \\ \end{array} \end{array} \\ \begin{array}{c} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \end{array} \end{array} \\ \begin{array}{c} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \\ \end{array} \\ \begin{array}{c} \\ \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array} \\ \end{array} \\ \end{array}$	• MT4N-AV- 10-240VaC • MT4N-AA- 10-240VaC • MT4N-AV- 100-240VaC • MT4N-AA- 100-240VaC • M 1 2 3 4 5 6
(Option > Improve the second of the seco	Image: Solution of the state of th
7 8 9 10 11 12 00T1 00T2 HOLD/ZERO Image: Constant of the second sec	<option> • NPN Open Collector output [MT4N-□11]</option>
PNP Open Collector output [MT4N 2] PNP Open Collector output [MT4N 3] PNP Open Collector o	7 8 9 10 11 12 Image: Second condition of the second c
• Relay+RS485 communication output [MT4N- \Box - \Box 4] B(-) $A(+)$ C D	PNP Open Collector output [MT4N2]
• Relay+RS485 communication output [MT4N4]	UUTI GO OUT2 HOLDIZERO UT1 HOLDIZERO UT1 HOLDIZERO
	• Relay+RS485 communication output [MT4N4]

Flescale lu	Inction (PA1: H	- 5676-	561			
This function is to display	setting(-1999 to 9999)	of particular	High/Low-limit	value in order	to display	High/Low-li

Spe	cificatio	ons			
odel				MT4N	0401440
ower su	oply	12-24 VDC//	AC 5VA	100- 5VA	240 VAC
isplay me	ethod	7 Segment L	.CD Display, Cl	haracter height: 9m	ım
splay ac	curacy	23°C ± 5°C ☞ -10°C to 50°C	DC Type: F.S.± DC/AC Type: V DC/AC Type: V	0.1% rdg±2digit / A /ithin F.S.±0.3% rdg F.S.±0.5% rdg±3di	C Type: F.S.±0.3% rdg±3digit ±3digit only for Current 5A terminal git
out spec	ification	DC Voltage/	Current, AC Vo	tage/Current, AC F	Frequency
ax. allow	able input	110% F.S. fo	or each measur	ed input range	ovimation ADC
mpling	cycle	50ms(DC), 1	6.6ms(AC)	g successive appr	oximation ADC
x. displ	ay range	-1999 to 999	99(4 Digit)		
set out	out	Relay output NPN/PNP Op RS485 comm	Contact capacity oen Collector output nunication output	ity: 125VAC 0.3A, 30V ut ☞ 12-24VDC ±2V	/DC 1A/Contact composition: N.O(1a) / 50mA Max. (Load resistance)
ansmiss	t sion output)	 Baud rate: method: Su DC4-20mA (Soloctable PM 	1200/2400/4800/9 ub-synchronizati output @ Resolut	600, Communication r on, Protocol: Modbus ion: 12,000 division(L	method: 2-wire halt duplex, Synchronous s type Load resistance max. 600Ω)
quency		Measuremen	it range: 0.100	to 9999Hz	
asurem Id funct	ient function	(Differ accor	ding to decimate	I point position)	
ulation	resistance	Min. 20MQ(at	500VDC megg	er)	
electric s	trength	1000VAC for 1	minute	2000V (Rotw	AC for 1 minute
ise strer	ngth	±2kV the sq	uare wave nois	e(pulse width: 1µs) by the noise simulator
ration	Mechanical	0.75mm amplit	ude at frequency	of 10 to 55Hz(for 1 mir	n.) in each of X, Y, Z direction for 2 hour
	Malfunction	0.5mm amplitue	de at frequency of	10 to 55Hz(for 1 min.)	in each of X, Y, Z direction for 10 minute
ick	Malfunction	300m/s ² (App 300m/s ² (App	nox. (UG) IN X. prox. 30G) in X	 ⊥, ∠ uirections fo Y, Z directions fo 	r 3 times
	Ambient	-10 to 50°C	Storage: -20	to 60°C	
ron- it	temperature Storage				
	humidity	35 to 85%RH	I, Storage: 35	o 85%RH	
lation	type	Double insul (Dielectric st	ation or reinfor rength between	ced insulation the measuring inp	ut part and the power part : 1kV)
oroval		CE		<u> </u>	
: weigh	t	Approx. 64g			
: The Inviron	indicator has ment resistan	no Hold function	freezing or cond	ensation.	
Spe	cificati	on of me	asured in	put and ran	ge [PA1:/]
	Meas	sured input	Input	Disalau sasa IV	Prescale Display range
ype	an	id range	impedance	Display range [30	[5CAL]
	0-50V	[50V]	434.35kΩ	0.00 to 50.00(Fixed)
DC	0-10V	[5V]	434.35kΩ	0.000 to 5.000(Fixed	d)
/olt	0-1V	[/V]	43.35kΩ	0.000 to 1.000(Fixe	d) dot Display range
	0-250mV 0-50mV	[250mV] [50mV1	2.15kΩ 2.15kΩ	U.0 to 250.0(Fixed)) 0,0 -1999 to 9999
	0-500mA	[500mA]	0.1Ω	0.0 to 500.0(Fixed)	0.00 -19.99 to 99.99
	0-200mA	[200mA]	0.1Ω	0.0 to 200.0(Fixed)	0.000 -1.999 to 9.999
DC npere	0-50mA	[50mA]	1.1Ω 1.10	0.00 to 50.00(Fixed) (Display range is variable
	0-5mA	[5mA]	11.1Ω	0.000 to 5.000(Fixed	d) point position.)
	0-2mA	[2mA]	11.1Ω	0.000 to 2.000(Fixe	d) *Please wire the proper
	0-250V 0-125V	[/25UV]	1.109MΩ	0.0 to 125.0(Fixed)	terminal to its max. input
AC	0-50V	[50V]	222MΩ	0.00 to 50.00(Fixed) within 30 to 100% of the input terminal.
Volt	0-25V	[25V]	222MΩ	0.00 to 25.00(Fixed) When it is higher than
	0-5V	[5V]	22MΩ	0.000 to 5.000(Fixe	d) input, it may cause terminal breakdown and over display
	0-2.5V	[5A]	0.01Ω	0.000 to 5.000(Fixe	d) range. The accuracy
	0-2.5A	[2.5A]	0.01Ω	0.000 to 2.500(Fixe	d) is decreased when it is connected to the terminal
AC	0-500mA	[500mA]	0.1Ω 0.10	0.0 to 500.0(Fixed)	under 30%.
upere	0-100mA	[100mA]	0.5Ω	0.0 to 100.0(Fixed)	
	0-50mA	[50mA]	0.5Ω	0.00 to 50.00(Fixed)
Moi [PA nonitors paramete er current er the set Monitorin	nitoring 0: H.PE L'I max./min. valu er 0. Set the or overvoltage time.When pr g function is no	L.PEL, PA2 ue of display valu delay time(0 to 3 e, when monitorir ressing any one o ot indicate when t	n. display : PE Ł.Ł] e based on the ct 0 sec.) at PEŁ.Ł ig the peak value. f ⊠ ⊠ ⊗ keys at he delay time is se	walue funct irrent displays value an of parameter 2 in orde Delay time is 0 to 30 : HPEE, LPEE of para tas "DD 5" at PEEL o	tion In then displays the data at H.P.E.Y. L.P.E. ar to prevent malfunction caused by initi- sec. and it starts to monitor the peak valu- imeter 0, the monitored data is initialized. f parameter 2.
] Cur Sca [PA 2 sets curre 2 4-20mA sets disp d the ran 3.(When i 3. automa nA at und	rent out le adjus 2:F5-H/F nt output for th lay value for 4 rge between t sets as unde tatically.)Preset er F5-L and 2	put(DC4- stment fun 5-L] e display value at 4mA at F5-L ar F5-H and F5-I r 10% FS, it chas display value is 20mA at over F5-	20mA) nction the output curren ad 20mA at F5-H should be 10% nged as over 10% fixed to output as H.	AC freet functio It measures input It uses fixed deci- be changed by point position is : upper gradient at measure frequent proper point of m OMeasured rang Decimal point	Quency measurement in [PA 1: d/ 5P] tsignal frequency when it is AC input. mal point[PA1: do b], measured range of decim as below chart. It is available to adjust the generative strain of the strain of the strain of the rege, should be supplied. Please select the easurement terminal. generative strain of the s
.rput :0mA				Measurement 0. range 9.5 X Accuracy of	0.00 0.00 0.0 0.00 0.00 100 to 0.10 to 0.1 to 1 to 0999Hz 9999Hz 9999Hz 9999Hz 9999Hz 9999Hz 9999Hz 9999Hz 100 to 1 to
4mA	FS-L	etting range <u>)% F.S.</u> FS-H	→ Display value	Below 1kH From 1kH @ I nb.H: 0.100 to @ I nb.E: 10 ² , 10	nz, r.S. ±0.1rdg ±2/digit. z to 10kHz, F.S. ±0.3rdg ±2/digit. b 9.999(Gradient adjustment of high valu b ¹¹ , 10 ⁰ , 10 ¹ (Index adjustment of <i>Link J</i> .
Erre		ction fund	otion	E Zoro a	diustment function

[PA 1:/ nb.H// nb.L]

						1							
	cificatio	ons		MTAN		Parameter	amet	Display	Function	1	Note		
Power sup	ply	12-24 VDC/AC		100-2	40 VAC		In-E In-r	Input type Input range	Selectable RMS/AVG in Selection of input range	AC type	Available AC type only.		
Power con Display me	sumption thod	DC: 3W, AC: 5VA 7 Segment LCD [Display, Char	5VA racter height: 9mi	n		di SP Stind	Display Standard	Selection of display ty Standard scale range	pe	Selectable: 5End / 5ERL / Fr E9 Display max. display value of 5End	_	
Display acc	uracy	23°C ± 5°C ☞ DC 1 DC//	Type: F.S.±0. AC Type: With	1% rdg±2digit / AC nin F.S.±0.3% rdg=	Type: F.S.±0.3% rdg±3digit 3digit only for Current 5A terminal	PRI	SCAL H-SC	Scale High scale	Scale range Set max. value of display	range	These are displayed at 5[RL only. It sets max/min.		
Input speci	fication	DC Voltage/Curre	ent, AC Volta	age/Current, AC Frequency		(Parameter 1)	L-SC dot	Low scale Dot	Set min. value of display Set decimal point positi	range on	It is displayed in 5ERL/FrE9 only and set the position.	_	
Max. allows A/D conversion	able input sion method	110% F.S. for ea Practical oversam	ch measured pling using :	d input range successive approximation ADC			d-Unt Inb.H	Display unit lamp Input bias high	Set display unit Correct High-limit gradient of	display value	Set range: mV / V / mA/A/Hz / off 5End/5ERL: Correction range: 0.100 to 5.000 Fr F9: Correction range: 0.100 to 9.999		
Sampling of Max. displa	ycle y range	50ms(DC), 16.6m -1999 to 9999(4 [ns(AC) Digit)				Inb.L	Input bias low Input bias exponent	Correct Low-limit gradient of display value		Set range:-99 to +99 Set range: 10 ⁻² /10 ⁻¹ /10 ⁰ /10 ¹	_	
Preset outp	ut	Relay output ☞ Co NPN/PNP Open Co	ontact capacity ollector output	125VAC 0.3A, 30VI ☞ 12-24VDC ±2V	OC 1A/Contact composition: N.O(1a) 00mA Max.(Load resistance)		oU 1.E oU2.E	Out1 type Out2 type	Select output mode of OL Select output mode of OL	ЛТ1 ЛТ2	Selectable oFF/ HI /Lo/ HL/ HL-G Selectable oFF/ HI /Lo/ HL/ HL-G		
Sub output		RS485 communica Baud rate: 1200/2	ation output 2400/4800/9600	0, Communication method: 2-wire half duplex, Synchronous			H95.1 H95.2	Out1 hysteresis Out2 hysteresis	Select hysteresis of OUT Select hysteresis of OUT	2	Within 1 to F.S. 10% (Variable depending on set of input range and prescale.)		
AC measure	ment function	DC4-20mA output	t PResolution	n: 12,000 division(Load resistance max. 600Ω)			SER.E PEE.E	time Peak time	Set startup compensation Set monitoring delay time for	time r peak value(sec)	Set range: 0.0 to 99.9 sec. Set range: 00 to 30 sec.		
Frequency measurem	ent function	Measurement ran (Differ according	ige: 0.100 to to decimal p	p 9999Hz point position)			di S.E Colir	Display time Color	Set sampling time(sec) Select color		0.1 to 5.0 sec.(Variable by 0.1 sec.) rEd / Grn / HEL / r-G / G-r		
Hold functi	on*1 esistance	Includes(Outer ho Min. 2010(at 500)	old function) /DC meager)) r)		PR2	EEro	Zero key	Set usage of front side ze adjustment key	ero	Po: Not use front side zero adjustment key 955: Use of front side zero adjustment key		
Dielectric s	rength	1000VAC for 1 mini (Between external t	ute terminal and c	2000VAC for 1 minute (Between external terminal and case)		(Parameter 2)	Eulin	Event input	Set external terminal(11,	12) function	Ero: Use external terminal as zero point adjustment terminal		
Noise stren	gth Mechanical	±2kV the square 0.75mm amplitude a	wave noise(t frequency of 1	pulse width: 1 µs) 10 to 55Hz(for 1 min.		FS-H FS-L BdcS	Full scale low Address	Set Low-limit value output posit Set Low-limit value output posit	on of PV output ress	Min. set range: Min. 10% F.S. Max. set range: Max. F5-H 10% Set range : 01 to 99			
vibration	Malfunction Mechanical	0.5mm amplitude at f 100m/s ² (Approx.	frequency of 10 10G) in X, Y	to 55Hz(for 1 min.) in , Z directions for	each of X, Y, Z direction for 10 minutes 3 times		6P5 Prt9	Bit per second Parity bit	Set baud rate(bps) Set parity bit		Selectable 1200/2400/4800/9600 Selectable nonE/EuEn/odd		
Shock	Malfunction Ambient	300m/s ² (Approx.	30G) in X, Y	, Z directions for	3 times		5EP ~53.E	Stop bit Response wating time	Set stop bit Set response wating tin	ie	Selectable // 2 Set range : 5 to 99		
Environ- ment	temperature Storage	-10 to 50 C, Stor	rage: -20 to	85%BH			LoC oUIH	Lock OUT1 high preset	Enable lock status Set value of OUT1 High-	limit output	Selectable oFF/Lo[1/Lo[2/Lo[3	_	
Insulation t	humidity /pe	Double insulation	or reinforce	d insulation	++ +	PRD	J.I Uo H.SUo	OUT1 low preset OUT2 high preset	Set value of OUT1 Low- Set value of OUT2 High-	imit output limit output	Set the range within display range of 5End/SERL. For MT4N-DV/DA Type, set range of OUT.H/OU2 and OUT.L/OU2.L is within -5 to 110%.	?.н	
Approval		CE	in between tr	e measuring inpu	(part and the power part - TKV)	(Parameter 0)	oU2.L H.PEY	OUT2 low preset High peak	Set value of OUT2 Low- Max. value by data mon	imit output itoring	Initializes the monitored data value by pressing an	ıy	
× 1 : The i	ndicator has i	Approx. 64g				Dor	LPER	Low peak	Min. value by data moni	loring	one of 🔟 💆, 🕅 keys.		
※ Environr	nent resistan	ce is rated at no freez	zing or conden	sation.			ame	* Press MODE	key for 2 sec. in RUN	mode, [PR I]	(Parameter 1) is displayed.		
Spe	cificatio	on of measu	ured inp	ut and rang	je [PA1:/]	MO 2 se	DE key c.	When pressin	g MODE key continua	ally, it stops d	isolaying at [PR2].		
Туре	Meas	ured input d range in	Input npedance	Display range [5E	PR I MO	DE key	% It is advanced % Press MODE	to current display para key for 3 sec., it is return at touched for 60 page in	rameter releasing MODE key at [PR I] or [PR2]. turned to RUN at any position.				
	0-50V 0-10V	[50V] 434 [10V] 434	4.35kΩ 0. 4.35kΩ 0.	00 to 50.00(Fixed) 00 to 10.00(Fixed)		2 se	с.	× After return to	RUN mode, press	DE key with	in 2 sec., it returns to previous parameter.		
DC Volt	0-5V 0-1V	[5V] 43. [/V] 43.	.35kΩ 0. .35kΩ 0.	000 to 5.000(Fixed 000 to 1.000(Fixed	dot Display range		anao	(Refer to the b	elow descriptions for s	et paramete	nameter 0		
	0-250mV 0-50mV	[250mV] 2.1 [50mV] 2.1	5kΩ 0. 5kΩ 0.	0 to 250.0(Fixed) 00 to 50.00(Fixed)	0.0 -199.9 to 999.9	set	ting	value					
0-500	0-500mA 0-200mA	[500mA] 0.1 [200mA] 0.1	Ω 0. Ω 0.	0 to 500.0(Fixed) 0 to 200.0(Fixed)	0.000 -19.99 to 99.99 0.000 -1.999 to 9.999	1.Advance pressing releasing	MODE MODE	arameter to be cl key continuousl key at the para	anged when y in RUN mode and meter.(Refer to "		MODE Set preset High-limit value of oU Lt.		
Ampere	0-50mA 4-20mA	[50mA] 1.1 [4-20mA] 1.1	ιA] 1.1Ω 0.00 to 50.00(Fixed) (Display range is variable according to decimal □mA] 1.1Ω 4.00 to 20.00(Fixed) according to decimal				Parameter setting") 2.When pressing MODE key in each parameter, the				MODE (It is not displayed when all the model with a line model) with the walue of PA2 is a FF.) (MODE) (It is not displayed when a line model) with the walue of PA2 is a FF.) (It is not displayed when a line model) with the walue of PA2 is a FF.) (It is not displayed when a line model) with the walue of PA2 is a FF.) (It is not displayed when a line model) with the walue of PA2 is a FF.) (It is not displayed when a line model) with the walue of PA2 is a FF.) (It is not displayed when a line model) with the walue of PA2 is a FF.) (It is not displayed when a line model) with the walue of PA2 is a FF.) (It is a F	ae	
	0-5mA 0-2mA	[5mA] 11. [2mA] 11.	1Ω 0. 1Ω 0.	000 to 5.000(Fixed 000 to 2.000(Fixed) point position.)	descript 3.When pre	on of ea	e of ≪ , ⊗ , ⊗ ke	ys in display mode,	oU I	Set preset Low-limit value of oU I.E. (It is not displayed when oU I.E more	de	
	0-250V 0-125V	[250V] 1.1 [125V] 1.1	09MΩ 0. 09MΩ 0.	0 to 250.0(Fixed) 0 to 125.0(Fixed)	terminal to its max. input within 30 to 100% of the input	the saved Ex) Mode	l setting v	alue is displayed. Setting value The	saved setting value		MODE value of PA2 is o FF.) %Change the value by 🐼 🕅 keys.		
AC 0-50V Volt 0-25V		[50V] 222 [25V] 222	222MΩ 0.00 to 50.00(Fixed) terminal. 222MΩ 0.00 to 25.00(Fixed) When it is higher than					► <u>250u</u> flash e	(It is not displayed when oU2.E mod value of PA2 is oFF.)	de			
	0-5V 0-2.5V	[5V] 221 [2.5V] 221	MΩ 0. MΩ 0.	000 to 5.000(Fixed 000 to 2.500(Fixed) input, it may cause terminal breakdown and over display	4.Change value flas	 Change the setting value by or key when setting value flashes. 				Change the value by Keys. Set preset Low-limit value of a U2.E		
	0-5A [5A] 0.01Ω 0.000 to 5.000(Fixed) range. The accuracy is decreased when it is connected to the terminal 0-2.5A [2.5A] 0.01Ω 0.000 to 2.500(Fixed) onnected to the terminal				Ex) Change Mode	AC type r	Setting value	(It is not displayed when oU2.t mo value of PA2 is oFF.) MODE Change the value by K keys.	de				
AC Ampere	0-500mA 0-250mA	[500mA] 0.1 [250mA] 0.1	Ω 0. Ω 0.	0 to 500.0(Fixed) 0 to 250.0(Fixed)	under 30%.	Press one I250 I I displays Max. monitoring value (Hig						ak)	
0-100mA [J0DmA] 0.5Ω 0.0 to 100.0(Fixed) 0-50mA [50mA] 0.5Ω 0.00 to 50.00(Fixed)				↓ MODE It is initialized by pressing any of Keys. ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓						of			
Monitoring max/min. display value function				5. When confirming the setting value with MODE key, the changed setting value flashes twice and enters into the operator of the changed setting value flashes twice and enters into						ak) of			
[PA (:H.PEYI		Ľ.E]	at diasta a sala a s	-	the next setting. 6. It returns RUN mode from parameter by pressing MODE key for 3 sec. 'DD					monitoring delay time of Parameter2 is set as PEE and LPEE are not displayed.		
of parameter	riax./min. valu er 0. Set the c or overvoltage	lelay time(0 to 30 sec when monitoring the	:) at PEEL of peak value. De	parameter 2 in order	to prevent malfunction caused by initial	Parameter 1					<measured each="" for="" input="" model="" specification=""></measured>		
after the set Monitoring	time.When programs of the second s	essing any one of 🕅 8	keys at H	PEE, L.PEE of paran s "DD 5" at PEEE of	heter 0, the monitored data is initialized.	PR	1			Model MT4N-DV 50	Measured input range	7	
_						V Select measured input specification. (Refer to "⊡ Specification of measured input and range".) MT4NDA S00 mA ≠ 200 mA ≠ 4-20 mA						٦	
Curi Curi	ent out le adius	put(DC4-20n tment functi	nA) on	AC freq function	uency measurement	Set display type for measured input. di 5P Setting type is 5End ↔ 5End ↔ Fender Setting type is 5End ↔ 5End ↔ Fender Setting type is 5End ↔ 5End ↔ Fender					.0V ≠ 125V ≠ 50V ₹ 25V ≠ 5V ≠ 2.5V ≠ 250V A ≠ 25A ≠ 500 mA ≠ 250 mA ≠ 100 mA ≠ 50 mJ	/ A	
[PA 2	F5-H/F	5-L]		It measures input It uses fixed decin	signal frequency when it is AC input. al point[PA1: dot], measured range can	MODE Fr E 9 is only available for AC type. MITHNAA T=25A							
It sets currer DC 4-20mA	it output for the av value for 4	e display value at the o	mA at ES-H	be changed by s point position is a upper gradient at []	below chart. It is available to adjust the A 1:1 ob H1 and IPA 1:1 ob F1. In order to	MODE When di SP is 5End When di SP is 5ERL When di SP is FrE9							
and the range between $F5-H$ and $F5-L$ should be 10% measure frequency normally, input sign the measure frage, should be supplic		y normally, input signal, over 10% F.S. of ge, should be supplied. Please select the	SE n	Stand Set decimal point position. dot Set frequency me UDDE Value of standard ↓ MODE 0.00 + 0.000 ↓ MODE					Э.				
F.S. automa 4mA at unde	tically.)Preset er F5-L and 2	display value is fixed 0mA at over F5-H.	to output as	OMeasured range	MODE specification. Display value is fixed. H - 5C. Set display value for max.								
Output				Decimal point position 0.									
201171				range 9.9	10 to 0.10 to 0.1 to 11 to 19Hz 99.99Hz 999.9Hz 9999Hz	d.UnE Set display unit.							
4mA	Min. se	tting range		Selow 1kH	equency measurement : r, F.S. ±0.1rdg ±2digit. to 10kHz F.S. ±0.3rdg ±2digit	MODE Set rangemV/V/mA/A/Hz/off							
FS-L FS-H → Display value		9.999(Gradient adjustment of high value)	MODE Set range: 0.100 to 5.000 MODE Set range: 0.1					MODE Set range : 0, 100 to 9,999					
(3) rbE-10, 10, 10 (index adjustment of rbEH)				Image: bit in bit i									
Error correction function Data Label 1 Even adjustment function Ladiusts the display value of the optional configured input							MODE Set range:	- 99 to 99					
It corrects display value error of measured input.		value as zero by fo ways as below.	rce, zero point error can be adjusted with 3		ame	eter 2		Ero	Enable zero adjustment by front key operation select 925. Press both Hereit keys at the same tir	i to me			
I nb.H: 5.000 to 0.100(Correct gradient(%) of high value) Display value=(Measured value × I nb.H) + I nb.L		When zero poi Hold terminal	nt adjustment with front key and s finished normally, zero point of	♥	Se	lect Preset output r	node of OUT1. ⇔ Lo⇔ BL⇔ B'= ^C	₩	automatically. Select either hold input by terminal 11, 12 or zero : by outproved inerest	- set			
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		value at saved in	nt automatically.		DDE Bu	it, it is only displaye	ed in OUT1 output		DDE *HoLd : Display value holding, *Eco: Zero adjustment by hold terminal.				
- 12 as the r hb.t value to display "U.U" by adjusting the offset of the low value. The display value to the 500V measured input varies by		Oper- ation val	ttion Front key Input external signal	0U2.E	Sel	lect Preset output mo $F \leftrightarrow HI \leftrightarrow Lo \leftrightarrow HL$ t it is contract.	de of OUT2 as ↔ HL - 5 ad in OUT2 content	F5-H	Set High-limit value of DC 20mA output posit of PV output. When changing input range and prescale mode	lion ∋,			
adjusting the offset of the low value. If this display value is "50 1.0", calculate 500.0/501.0 (the desired display value/		PR I: D	Press both Short-circuit external Hold	₩	inc	iu, iu is only displaye cluded model.	is of OUT1 within 10%		the setting values of F5-H and F5-L are chang automatically as max/min. value of input range.	jed			
the display value), and set the 0.998 correction value as the I ob.H to display "500.0" by adjusting the gradient of the bidb value.		Des- cription value	on Keys for 3 sec. at the RUN	<u>₩</u>		8. But, it is not disp F.	layed when pull the mode	is M	PV output.	JI			
The offset correction range of Lab L is within 00 to 100		I nb.L	mode. XI is enable to use in option mode.	H95.0	DDE Se	t Preset hysteresis it, it is not display	of OUT2 within 10% of F. yed when old 2.1 mode	s. Adr is Mor	Set address of RS485 communication output. Set range : 01 to 99				
regardless of dob.		Refer to descrip display function	tion " Error correction function, Error Parameter 2" for function and error.	SER.E	Se	t startup compensa	tion time.	↓ 6P5	Set baud rate of RS485 communication output Selectable : 9500 + 4800 + 2000 + 1200				
Gradient correction function (DA 4 + + + + 1)				DE ^{Se}	t monitorina dolou 4	, 300. me		Set parity bit of PS485 communication					
It corrects the gradient of prescale value and display value. (Figure 1)) (Figure 1)) (Figure 1)) (Figure 1)) (Figure 1)) (Figure 1))							t range : 00 to 30 se	C.		Selectable : nonE /EuEn /odd			

