Autonics

Multi Indicator KN-2000W SERIES

INSTRUCTION MANUAL





Thank you very much for selecting Autonics products. For your safety, please read the following before using.

■ Safety Considerations

**Please keep these instructions and review them before using this unit.

※Please observe the cautions that follow:

⚠Warning Serious injury may result if instructions are not followed.

↑ Caution Product may be damaged, or injury may result if instructions are not followed.

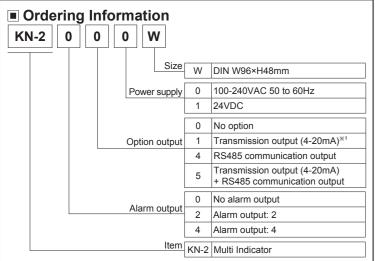
XThe following is an explanation of the symbols used in the operation manual. **↑Caution:** Injury or danger may occur under special conditions.

⚠Warning

- 1. In case of using this unit with machinery(E.g.: nuclear power control, medical equipment, ship, vehicle, train, airplane, combustion apparatus, safety device, crime/disaster prevention equipment, etc) which may cause damages to human life or property, it is required to install fail-safe device. Failure to follow this instruction may result in fire, human injury or damage to property.
- 2. Install this unit on a panel.
- Failure to follow this instruction may result in electric shock.
- 3. Do not connect, repair, or inspect this unit when power is ON. Failure to follow this instruction may result in electric shock.
- 4. Do not disassemble the case. Please contact us if it is required. Failure to follow this instruction may result in electric shock or fire.
- 5. Wire properly after checking terminal numbers. Failure to follow this instruction may result in fire.

⚠ Caution

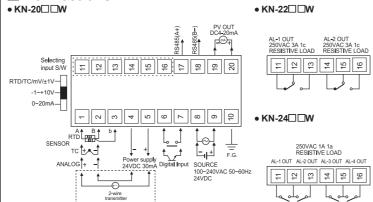
- 1. This unit shall not be used outdoors.
- Failure to follow this instruction may result in shortening the life cycle of the product or electric shock
- 2. Please observe the rated specifications.
- Failure to follow this instruction may result in shortening the life cycle of the product
- 3. In cleaning this unit, do not use water or organic solvent. And use dry cloth. Failure to follow this instruction may result in electric shock or fire.
- 4. Do not use this unit where there are flammable or explosive gas, humidity, direct ray of the sun, radiant heat, vibration and impact etc. Failure to follow this instruction may result in fire or explosion.
- 5. Do not inflow dust or wire dregs into the unit.
- Failure to follow this instruction may result in fire or malfunction.
- 6. Wire it properly after checking terminal numbers when connecting power cable and measuring input.
- Failure to follow this instruction may result in fire or explosion



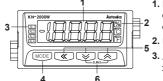
×1:For transmission output(4-20mA), select one between transmission output+alarm output 2 or

*The above specifications are subject to change without notice.

Connections



Unit Description



- 1. Display part(red)
- Run mode: Displays current measurement value. Parameter set mode: Displays parameter and SV.
- 2. Unit indicator: Displays the set unit.
- 3. Alarm output indicator
- : Turns ON when the alarm is ON.

- : Used to enter parameter set mode, move to parameters, save SV and return to RUN mode.
- 5. **€**, **E**, **key**: Used to change parameter SV.

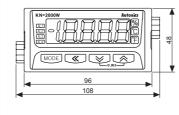
6. D.IN3

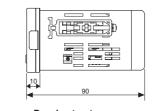
4. MODE key

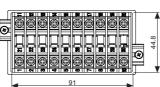
Press the

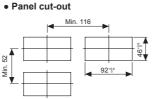
and
keys for 3 sec at the same time, it operates the set function (alarm clear, display hold, zero-point adjustment) at [dl - t] at program mode.

Dimensions









Input Type and Range

Input type		Parameter	Input ran	Input range(°C) Input range(°F)		F)		
	K(CA)	K(CA)		-200.0	to 1350.0	-328	to	2462
	J(IC)		F[-J	-200.0	to 800.0	-328.0	to	1472.0
	E(CR)		FC-E	-200.0	to 800.0	-328.0	to	1472.0
	T(CC)		£[-E	-200.0	to 400.0	-328.0	to	752.0
	R(PR)		£[-r	0.0	to 1750.0	32	to	3182
Thermo	B(PR)*		F[-P	400.0	to 1800.0	752	to	3272
-couple	S(PR)*		£[-5	0.0	to 1750.0	32	to	3182
	N(NN)*		£[-n	-200.0	to 1300.0	-328	to	2372
	C(W5)*		F[-[0	to 2300	32	to	4172
	L(IC)*		EC-L	-200.0	to 900.0	-328.0	to	1652.0
	U(CC)*		£[-U	-200.0	to 400.0	-328.0	to	752.0
	Platinel II	Platinel II*		0.0	to 1390.0	32	to	2534
	Cu50Ω*		C U.5 0	-200.0	to 200.0	-328.0	to	392.0
	Cu100Ω*		C U. 10	-200.0	to 200.0	-328.0	to	392.0
RTD	JPt100Ω		JPE.I	-200.0	to 600.0	-328.0	to	1112.0
	DPt50Ω		dPt.5	-200.0	to 600.0	-328.0	to	1112.0
	DPt100Ω		dPt.1	-200.0	to 850.0	-328.0	to	1530.0
	Current	0.00 - 20.00mA	RAA I					
	Current	4.00 - 20.00mA	RAR2					
Analog		-50.00 - 50.00mV	Rñu I	- 19999 to 19999 (display range is variable depending on decimal point position)				
Allalog	Valtage	-200.0 - 200.0mV	Rñu2				on)	
	Voltage	-1.0000 - 1.0000V	A-u !					
		-1.000 - 10.000V	A-u2					

※Above input types which have the * mark are not displayed.

To display the above input types, supply the power with pressing the MODE key.

■ Specifications

■ 2be	ecification			
Series		KN-2000W		
Power	AC voltage	100-240VAC~ 50 to 60Hz		
supply	DC voltage	24VDC		
Allowable	voltage range	90 to 110% of rated voltage		
Power	AC voltage	Max. 8VA		
consumption	DC voltage	Max. 3W		
Display me	ethod	4½-digit, 7-segment LED (selectable red, green, yellow) method		
Character	size	W10×H17mm		
	RTD	JPt100Ω, DPt100Ω, DPt50Ω, Cu50Ω, Cu100Ω (5 types)		
Input type	Thermocouple	K, J, E, T, R, B, S, N, C (W5), L, U, PLII (12 types)		
input type	Analog	Voltage: ±1.0000V, ±50.00mV, ±200.0mV, -1.000-10.000V (4 types) Current: 4.00-20.00mA, 0.00-20.00mA (2 types)		
Digital inpu	ut	Contact input: max. 2kΩ in ON,Max. 90kΩ in OFF Non-contact input: residual voltage max. 1.0V in ON, leakage current max. 0.03mA in OFF Outflow current: approx. 0.2mA		
	Alarm output	e2-point: relay contact capacity 250VAC~ 3A 1c e4-point: relay contact capacity 250VAC~ 1A 1a		
Sub output	Transmission output	ISOLATED DC4-20mA (PV transmission) load resistance max. 600Ω		
	Com. output	RS485 (Modbus RTU)		
Display accuracy		±0.2% F.S. ±1-digit (25±5°C) ±0.3% F.S. ±1-digit (-10 to 20°C, 30 to 50°C) In case of thermocouple and below -100°C input, [±0.4% F.S.]±1-digit %TC-T, TC-U is min. ±2.0°C		
Setting me	thod	Set by front keys or RS485 communication		
Alarm outp	out hysteresis	Set ON/OFF interval (1 to 999-digit)		
Sampling of	cycle	Analog input: 100ms, temperature sensor input: 250ms		
Dielectric v	/oltage	2000VAC 50/60Hz for 1 min (between input terminal and power terminal		
Vibration		0.75mm amplitude at frequency of 5 to 55Hz (for 1 min) in each X, Y, Z direction for 2 hours		
Relay	2-point	Mechanical: min. 10,000,000, Electrical: min. 100,000 (250VAC 3A resistance load)		
life cycle	4-point	Mechanical: min. 20,000,000, Electrical: min. 500,000 (250VAC 1A resistance load)		
Insulation i	resistance	Over 100 MΩ (at 500VDC megger)		
Noise immunity		±2kV the square wave noise (pulse width 1μs) by noise simulator		
Memory re	tention	Approx. 10 years (non-volatile semiconductor memory type)		
Environ	Ambient temp.	-10 to 50°C, storage: -20 to 60°C		
-ment	Ambient humi.	35 to 85%RH, storage: 35 to 85%RH		
Approval		CE		
Weight*1		Approx. 332g (approx. 200g)		
		packaging. The weight in parenthesis is for unit only. is rated at no freezing or condensation.		

Communication

You can set communication address [Addr] and communication speed [bAUd] for RS485 communication.

■ Communication write enable/disable [Program mode: [๑ភิـម]]

You can set to enable [EnA] or disable [dl 5A] or writing parameter setting by RS485 communication

■ Communication manual

Refer to communication manual for RS485 communication.

■ Communication set [Program mode: Addr, bAUd]

Visit our web site (www.autonics.com) to download communication manual and software [Integrated device management program: DAQMaster].

■ Software [Integrated device management ■ Communication specifications program: DAQMaster]

Integrated device management program,

DAQMaster, is able to set and monitor parameters. It is available only for RS485 communication models.

	Item	Minimum requirements
	System	IBM PC compatible computer with Int Pentium III or above
	Operating system	Microsoft Windows 98/NT/XP/Vista/7/8/
	Memory	256MB or more
	Hard disk	More than 1GB of free hard disk space
	VGA	1024×768 or higher resolution display
	Others	RS-232 serial port (9-pin), USB port

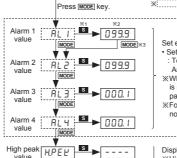
Com. method RS485 2-wire half duplex 19200, 9600, 4800, 2400. speed(BPS) 1200 Converter Duilt in RS232 Max 32 units connections Max. 1200m (within 700m distance recommended) Protocol Modbus 1.1 RTU Parity None Stop Bit Data length 8-bit

■ Monitoring Mode

RUN mode

%1: S:Press any key among the €, ₺,₺.

※1: 座出Fress any key among tne 《、※、※、※ ※2: ②、Moves digits / ※、②、Changes SV. ※3: Press the MODEJ key after checking/changing SV in each parameter. The value flashes twice and is saved. It moves to next parameter. ※After entering setting group, press the MODEJ key for 3 sec or there is no additional key operation in 30 sec, it returns to RUN mode. X: This parameter may or may not appear, depending on the other parameter set or model type.



*Displayed only for alarm output models Set each alarm value; [RL - 1 to RL - 4] in program mode. Setting range

Temperature sensor input → within temperature range

Analog input → Ł - 5 £ to H - 5 £

When alarm operation [AL - I to AL - 4] in program mode is no alarm [ALBL] or sensor break alarm [56AL], these

For model with 2 alarm output (KN-22□□W), RL 3, RL 4 are

Displays high/low peak value. #High/Low peak value is available only to check and initialize it. (Refer to '■ High/Low peak monitoring' for initialization.) Low peak L.PEL S XInitial high/low peak is saved after 2 sec from supplying the

%1: S:Press any key among the (€), (⊗), (⊗) Program Mode ※2: (a) Moves digits / (b) (a) (c) Changes SV. ※3: Press the [MoDE] key after checking/changing SV in each parameter. The value flashes twice and is saved. It moves to next parameter. ► RUN mode Press MODE key

XDisplayed only when selecting

temperature sensor input type

dUnt ore de off dunt ore MODE Select front display unit. Low limit input value

L--Set low limit of input range.

Set low limit of input range.

Set low limit of input range. Set high limit of input range.

- Setting range: within analog input type range input value ! MODE Select decimal point position of display scale value

Unit s

Low limit scale value.

Set low limit scale value. H-5C Set high limit scale value.
• Setting range: -19999 to 19999

*Displayed only for transmission output model. Set output scale value for 4mA. 4mA output Set output scale value for 4mA.

Set output scale value for 4mA. MODE Mode

Set output scale value for 20mA.

Set output scale value for 20mA.

Setting range: Temperature sensor input → within temperature range Analog input → Ł - 5 € to H - 5 €

| MIXING | M Input and transmission output

extension

| Mode | Select extension range of 4-20mA input and transmission output.

| Select extension range of 4-20mA input and transmission output.

*Displayed only for alarm output models Set AL1 to AL4 alarm

AL3 mode RL - 3 AL4 mode | AL - 4 | S | AL 2.A Next paran

**For model with 2 alarm output (KN-22) \(\text{IN}\), \(\text{R} \), \(\text{R} \) are not displayed.

**No alarm \(\text{R} \text{L} \), sensor break alarm \(\text{5} \text{R} \). \(\text{J} \) on ot have alarm option.

**Set alarm value \(\text{R} \text{L} \) i to \(\text{R} \text{L} \) in monitoring mode. AL output hysteresis Set alarm output hysteresis. • Setting range: 001 to 999

**When alarm operation [RL - I to RL - 4] in program mode is no alarm

[REQL] or sensor break alarm [56RL], this parameter is not displayed

*Displayed only when selecting analog input type Inst Secting allated in the section allated in the section allated in the section allated in the section all the secti

Select input special function. Set input correction value.
• Setting range: -999 to 999 MODE Digital filter Set the number of moving average digital filters.

Set the number of moving average digital filters.

Setting range: 01 to 16

MODE ! d!-Y<mark>S</mark>>Hold <mark>⊗</mark>>[Ero <mark>⊗</mark>>AlrE

Display color [Lor S ► rEd S Trn S YELo S Tr-5 S Trn *Displayed only for alarm output models Alarm display color . Select display part color for alarm.

**Refer to ** Display color*.

burn Select output status when sensor disconnection

※Displayed only for RS485 communication output model Set communication address.
• Setting range: 01 to 99 Addr

Select communication speed (baud rate).

En.R Select enable/disable to communication write (En.R: enable to write, dr 5R: disable to write)

LOCY S OFF S LOCI

Select lock function.

Functions

■ Alarm [AL-1, AL-2, AL-3, AL-4]

This product has 2 or 4 alarms to operate individually when the value is too high or low Alarm function is set by the combination of alarm operation and alarm option. To clear alarm, use digital input function (setting d1 - E, d1 - E as AL, E) or turn the power OFF and ON.

KFor the model (KN-20□□W) without alarm output, these parameters are not displayed.



Alarm operation

Mode	Name	Alarm operation	Descriptions
A E O	_	_	No alarm operation
AF (E)	High limit alarm	OFF H ON High limt alarm value: 800°C	PV ≥ alarm temperature, alarm is ON
AF 5:[]	Low limit alarm	ON H OFF Low limt alarm value:200°C	PV ≤ alarm temperature, alarm is ON
56A	Sensor break alarm	_	It will be ON when it detects sensor disconnection. Sensor break alarm does not have alarm option.

※ H: Alarm output hysteresis

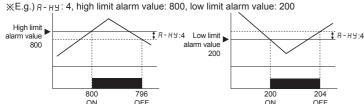
Alarm option

Option	Name	Descriptions
REIIR Standard alarm		If it is an alarm condition, alarm output is ON. Unless an alarm condition, alarm output is OFF.
АЕШЬ	Alarm latch	If it is an alarm condition, alarm output is ON. Before clearing the alarm, an ON condition is latched. (Holding the alarm output)
AFIIC	Standby sequence	First alarm condition is ignored. From the second alarm condition, standard alarm operates. When power is ON and it is an alarm condition, it is ignored. From the second alarm condition, standard alarm operates.
AFd	Alarm latch and standby sequence	If it is an alarm condition, it operates both alarm latch and standby sequence. When power is ON and it is an alarm condition, it is ignored. From the second alarm condition, alarm latch operates.

■ Alarm output hysteresis [Program mode: A-H4]

Set the interval of ON/OFF alarm output.

The set hysteresis is applied to AL1 to AL4 and it is as below.



■ High/Low peak monitoring [Monitoring mode: H.PEŁ, L.PEŁ]

This function is to save high/low peak to check the invisible abnormal condition of system at [H.PEL] or [L.PEL] in monitoring mode.

When the high/low peak is out of the temperature range, it displays HHHH or LLLL. To initialize high/low peak, press the ♠, ⊌keys at the same time for 3 sec at [HPE L]

In this case, peak value is the present input value.

■ Error

Display	Descriptions	Troubleshooting				
LLLL	Flashes when measured sensor input is lower than the temperature range.	When input is moved within the				
нннн	Flashes when measured sensor input is higher than the temperature range.	temperature range, it is cleared.				
Flashes when the sensor is break or not connected.		Check temperature sensor connection.				
Err	Flashes when there is error to SV	Check set conditions and re-set it.				

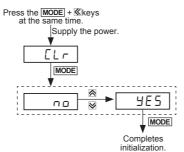
■ User input range [Program mode: L-r[, H-r[]]

When selecting analog input, you can set the input range for your purpose. Set low limit input value [L - r G] and high limit input value [H - r G] to limit the input range. Set conditions:

Low limit input value [L-r[]] +20%F.S. < High limit input value [H-r[]]

■ Parameter initialization

To initialize all parameter as factory default, supply the power to the product with pressing the **MODE** and keys at the same time and it enters initialization



■ Input and transmission output extension [Program mode: E为 □]

This function is to extend analog input and 4 to 20mA transmission output to 5% or 10%

range.					
Operation					
Outputs 4 to 20mA within analog input range.					
Outputs 3.2 to 20.8mA for 5% out of the analog input range.					
Outputs 2.4 to 21.6mA for 10% out of the analog input range.					

%This parameter is displayed only for transmission output (4-20mA) model. But it is not displayed when selecting temperature sensor input.

■ Input correction [Program mode: | n-b]

This function is to correct the error occurring from a thermocouple, a RTD or analog input out of allowable error range of this unit.

This is also available to correct error when a sensor cannot contact the subject position by calculating the error temperature

Variable temperature sensors have accuracy level. Because high accuracy type is expansive. standard thermocouples are generally used.

In this case, temperature sensor may occur error. By executing this function, you can get more accurate temperature

When executing input correction function, you should measure the error from a sensor accurately. If the measured error is not correct, error may be greater.

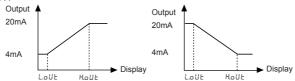
(If 1.05F = EUF, 1.0-b as atmospheric pressure input value not as input correction function. Refer to '■ Two unit function'.)

E.g.)When measured temperature is 4°C and actual temperature is 0°C. Set I n - b as -4. and display value is 0°C.

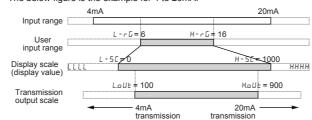
■ Transmission output scale [Program mode: LoUE, HoUE]

For 4-20mA current output, this function is to set the display value for 4mA [L.o U E] and the display value for 20mA [H.o U L].

The interval between Loue and Houe is 10% F.S. If it is below 10%, it is fixed as 10% of SV



**Relation among input range, user input range, display scale, and transmission scale The below figure is the example for 4 to 20mA.

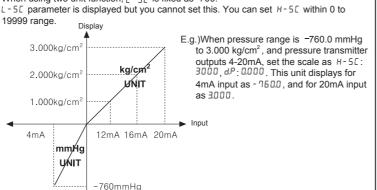


■ Two unit function [Program mode: ŁUF]

When connecting a pressure sensor, compound pressure which is below atmospheric pressure (0) is for vacuum as mmHq and which is atmospheric pressure or over it is for positive pressure as kg/cm²

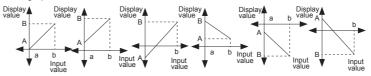
Atmospheric pressure is 0 kg/cm². When this unit does not display 0 kg/cm², you can correct zero-point adjustment function.

When using two unit function, L - 5[is fixed as -760.

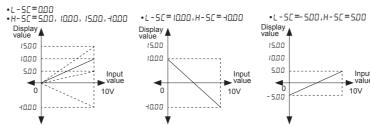


■ Display scale [Program mode: L-5[, H-5[]

For analog input, this function is to set (-19999 to 19999) for particular high/low limit value in order to display high/low limit value of measurement input. If measurement inputs are 'a' and 'b' and particular values are 'A' and 'B', it will display a=A, b=B as below graphs.



Display scale function is able to change display value for max./min. measured input by setting high limit scale [H-5] and low limit scale [L-5] in program mode. ※E.g.) Set high/low scale value (input range is 0 to 10V)



*When changing input type, high/low scale is changed as factory default.

■ Input special function [Program mode: / n5F]

When selecting analog input, this function is to display the calculated actual value by square, root $(\sqrt{})$, or two unit function (TUF) as display value.

	Parameter	Functions	Graph	Applications		
	Lin	Outputs as input value	Display Y = AX + B	Standard characteristics. Input for linearity.		
	root	Outputs the rooted (√) input value	Display $Y = A(\sqrt{X}) + B$ $(X \ge 0)$ $Y = 0(X < 0)$ Input	Used for measuring flows by pressure signal.		
	598-	Outputs the squared input value	Display A $Y = A(X)^2 + B$ $(X > 0)$ Input $Y = -A(X)^2 + B$ $(X < 0)$	Used for outputting differential pressure by flow signal.		
	LUF	Refer to '■ Two unit function'				

*Display value and mA output value for 598c:

Display value= $\{(\frac{\text{Input value} - L - r \cdot L}{2})^2 \times (H - 5 \cdot L - 5 \cdot L)\} + L - 5 \cdot L$ (output value) H-----

※Display value and mA output value for root:

Display value={($\sqrt{\frac{\ln \text{put value} - L - r G}{H - r G} - L - r G}$)×(H-5C-L-5C)}+L-5C (output value) (output value)

■ Digital filter [Program mode: ¬̄PuF]

Moving average digital filter is able to stably display and output the noise from input line and irregular signals as software.

• Filter set range : 01 to 16

(When setting as 01, digital filter function does not run.)

* Display cycle is same when executing moving average digital filter.

■ Digital input [Program mode: dl - +, dl - +]

By digital input terminal [d1-t] (no. 6, 7 terminals) or digital input key [d1-t2] (D.IN3: ∀+
 for 3 sec), one of three functions executes as the below table.

	Function		Operaiton
	ALrE	Alarm clear	When alarm is ON in RUN mode, it clears alarm forcibly. (It applies only for alarm latch, alarm latch and standby sequence options.) Alarm clear operates only when the value is out of the alarm value range. After clearing alarm, alarm operates its option normally. **For the model without alarm output (KN-20 W), this parameter is not displayed.
	HoLd	Display HOLD	Temporarily indicated value is stopped in order to check indicated value in unstable input.
	EEro	Zero- point adjust- ment	Set preset display value as 0. This function is related with input correction [in-b]. When executing zero adjustment function in display value as 4, input correction value [in-b] is set as -4 automatically.

■ Alarm output for disconnecting input sensor [Program mode: bUrn]

When disconnecting input sensor, you can set the status of transmission output.

	Parameter SV Transmission output(4-20mA)				
	ьигл	٥٥	20mA+5% output		
		oFF	4mA-5% output		

■ Display color [Program mode: [Lor/[-AL]

This function is to change display color for occurring error, operating alarm automatically. User can check the status of this unit directly.

X Color of monitoring mode, program mode is red.

RUN mode and error display color [Program mode: [Lar]

Parameter	Display color		Parameter	Display color	
SV	RUN	Error	4EL o	Yellow	Yellow
rEd	Red	Red	rG	Red	Green
Grn	Green	Green	Gr	Green	Red

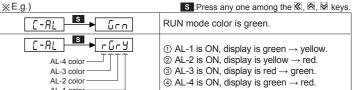
O Alarm display color [Program mode: E-RL]

This parameter is displayed only for the alarm output models (KN-22 W. KN24 W).

The number of set digit is same as the number of alarm output.

[2 alarm outputs (KN-22 W)] [-AL [4 alarm outputs(KN-24 W)] [-AL

• Set color for each alarm. It changes as r→ t → y → r in turn.



- When alarm is cleared, or two alarms operate at the same time, the latest alarm's color is
- When error occurs [HHHH, LLLL, bUrn, Err, Err I] during alarm, the set color of [Lor is applied.

■ Lock [Program mode: Lo[ك]

it illilits to check parameter set value and to change it.							
	oFF	Lo[I	Lo[2				
Program mode	•	0	0				
Monitoring mode	•	•	0				

※ In L □ [2, only L □ [2] parameter displays in program mode

■ Factory Default

Monitoring mode

■ Monitoring mode										
Parameter	Default	Parameter	Default	Parameter	Default					
AL I	099.9	AL3	000.1	HPEL						
AL 2	099.9	ALY	000.1	LPEU						
	_									

■ Program mode

Parameter	Default	Parameter	Default	Parameter	Default	Parameter	Default
In-P	RAR2	L.oUt	0.0 0.0	1 n.5 F	Lln	Addr	0 1
Uni E	٥٥	H.o U E	100.0	In-b	0000	PBN9	9.6 Y
d.Unt	٥٠٥	E 5J 0	5P	ñ R U.F	04	Coun	E n.A
L-rG	0 4.0 0	AL-I	AL LA	dI - E	HoLd	Lott	oFF
HG	2 0.0 0	AL-5	AF I'A	91 - F	HoLd		
d.P	0.0	AL-3	A E 2.A	[Lor	гEd		
L-5E	0.00.0	AL-4	R Ł 2.R	E-AL	רררר]	
H-5[100.0	A-HY	001	ьИгл	٥٥		

Cautions during Use

- 1. For connecting the power, use a crimp terminal (M3.5, max. 7.2mm).
- 2. The connection of this unit should be separated from the power line and high voltage line in order to prevent inductive noise.
- 3. Install a power switch or a circuit breaker to supply or cut off the power.
- 4. Switch or circuit breaker should be installed nearby users for convenient control.
- 5. Do not use this unit near the high frequency instruments (high frequency welding machine & sewing machine, large capacity SCR controller).
- 6. When supplying input, if HHHH or LLLL is displayed, measured input may have problem. Turn off the power and check the line.
- Installation environment

1 Indoors 3 Altitude max. 2,000 m

 Pollution Degree 2 4 Installation category II

■ Indicators

■ Controllers

XIt may cause malfunction if above instructions are not followed.

■ Temperature/Humidity transducers

■ Tachometer/Pulse(Rate)meters

■ Counters

Panel meters

■ Display units

Major Products ■ Photoelectric sensors

Fiber optic sensors

Door side sensors ■ Area sensors

■ Proximity sensors ■ Pressure sensors Rotary encoders Sensor controller ■ Connectors/Sockets

■ Switching mode power supplies
■ Control switches/Lamps/Buzzers ■ I/O Terminal Blocks & Cables

■ Graphic/Logic panels

■ Field network devices Laser marking system(Fiber, CO₂, Nd:YAG) Laser welding/soldering system

Autonics Corporation

■ HEADQUARTERS:

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Thyristor units

■ Pressure transmitters

DRW170704A