

FEATURES

- ◎ Multi-range input (T/C, RTD, Volt, mA, etc)
- ◎ 4step LED brightness control
- ◎ High accuracy 16bit A/D converter
- ◎ Peak hold function (Highest & Lowest)
- ◎ Cut off function (low value limit function)
- ◎ RS-485 Communication interface
- ◎ 4 points alarm & Dead band set
- ◎ Isolation current two output (4.0~20.0mA) & Output scaling
- ◎ Sensor power source DC 24V in STD specification



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SPECIFICATIONS

▶ Measuring and display cycle :

200ms(mV, Volt, mA type)

400ms(TC, RTD type)

▶ Input resistance : Volt-400kΩ

Others type-1kΩ

▶ Signal source resistance : Pt 100Ω type-30Ω/line
Others type-300Ω/line

▶ CMRR(Common Mode Rejection Ratio) : 140dB or more

▶ NMRR(Normal Mode Rejection Ratio) : 60dB or more

▶ Moving average filter

▶ Built-in Sensor power source : DC 24V 30mA ±0.5%

▶ Accuracy : Display ±0.2% FS

▶ Isolation current output(Option)

Current : DC 4.00~20.00mA

Maximum load resistance : 600Ω

Isolation resistance(Input-Output) : 100MΩ or more
(DC 500V)

▶ Alarm(Option)

Contact output type : Normal open
(Normal close-Order made)

Max switching power : 60W 125VA

Max switching voltage : DC 220V, AC 250V

Max switching current : DC 2A, AC

Max Carrying current : DC 3A, AC

▶ Ambient temperature & Humidity

Operation : -10~50°C, 10~90%

Storage : -20~70°C, 5~95%

▶ Power supply

Voltage : AC 85~265V(45~65Hz)

DC 24V(Option)

Power consumption : Max 4VA

Isolation resistance : 100MΩ , DC 500V
(FG-Input, FG-Power,
Power-Input, Input-Output)

▶ Communication interface(Option)

Type : RS-485 & modebus.RTU

Speed : 4800, 9600, 19200bps

ID(address) setting : 0~99

▶ Etc

Weight : 500g

Mounting : Panel mount

Dimension : 96(W) X 48(H) X 112(D)mm

디지털 지시 경보계(백색 LED)

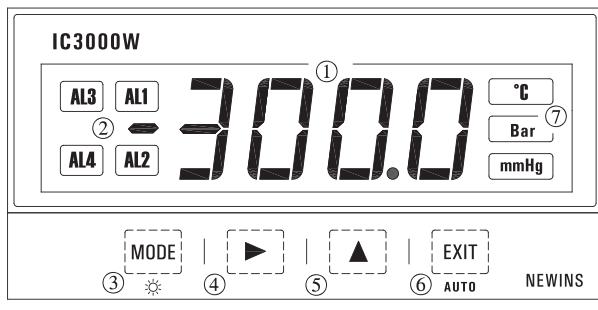
WHITE COLOR DIGITAL INDICATORS WITH ALARM

INPUT TYPE

Sensor Type	Range	Scale	Symbol
TC	B(PR)	0~1800°C	-
	R(PR)	0~1750°C	-
	S(PR)	0~1750°C	-
	K(CA)	-200~1350°C	-
	E(CRC)	-199.9~700.0°C	-
	J(IC)	-199.9~800.0°C	-
	T(CC)	-199.9~400.0°C	-
Volt	mV	-50.0~50.0mV	-1999~9999
	Volt	-1.000~1.000V	-1999~9999
	Volt	-10.0~10.0V	-1999~9999
mA	mA	4.00~20.00mA	-1999~9999
PT	Pt100Ω	-199.9~800.0°C	-
	JPt100Ω	-199.9~500.0°C	-

* mA type : External 250Ω(±0.1% 25ppm) resistance is attached

PART NAME



- ① Measured value display : white color
- ② Alarm condition display
- ③ "mode" Key : Storage the set data and change the operation menu
- ④ ▶ Key : Enter into the data setting mode and modify the changed location
- ⑤ ▲ Key : Change the data value
- ⑥ "EXIT" Key : Out of mode
- ⑦ Unit

MAJOR FUNCTIONS

▶ FND Bright set function

- Mode 1 - FND bright 100%
- Mode 2 - FND bright 75%
- Mode 3 - FND bright 25%
- Mode 4 - FND off

* This mode is display measure value after 10second disappear measure value.

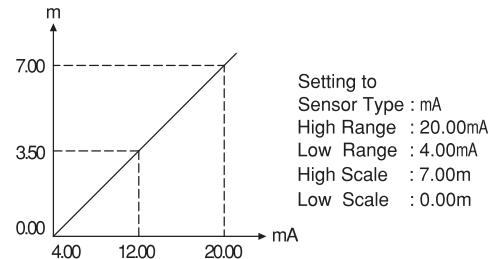
Push the any key expression measure value.

▶ Display scaling function(mV, Volt, mA only)

This function changes and sets the display value according to scale and input range.

Ex) In case of input range 4.00~20.00mA and

Level 0.00~7.00m

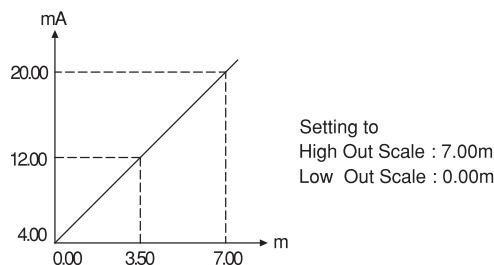


▶ Output scaling function

This function can change the 4.00~20.00mA value as the output scale.

Ex) In case of display value 0.00~7.00m,

Output 4.00~20.00mA



▶ Function(mV, Volt, mA type)

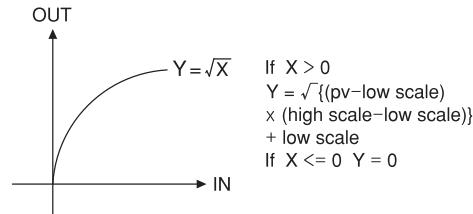
L in

Pass the input as it is.

Used for general input type and linearity input.

root

Pass the input after $\sqrt{}$. Used for flow rate by orifice.



C-of

Like level measuring, when it does not display measuring under cut off value, it always can display zero by using cut off value function.

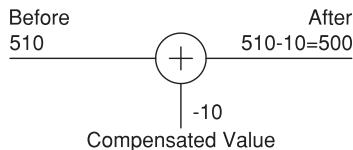
► Sensor compensation function

The function is useful for compensating error by long sensor line or changed zero point by aged sensor.

Ex) Before sensor adjust = 510°C

After sensor adjust

$$\begin{aligned} &= \text{measured value} + \text{compensated value} \\ &= 510 - 10 = 500^\circ\text{C} \end{aligned}$$



► Alarm function

Alarm type : High, Low

The alarm consists of 4 relays, and it can output relay contact output individually.

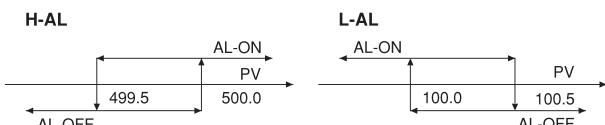
Ex) AL-1 : High alarm value 500.0,

AL-2 : Low alarm value 100.0,

Alarm dead band setting 0.5

The high alarm(AL-1) is ON when the present value(PV) is 500.0 or more, and OFF when 499.5 or less.

The low alarm(AL-2) is OFF when the present value(PV) is 100.5 or more, and ON when 100.0 or less.



► Peak hold function

Peak mode 0 High peak mode

Remember the highest input value and display the highest value when pressing the key.

Peak mode 1 Low peak mode

Remember the lowest input value and display the lowest value when pressing the key.

Peak mode 2 High peak & Display mode

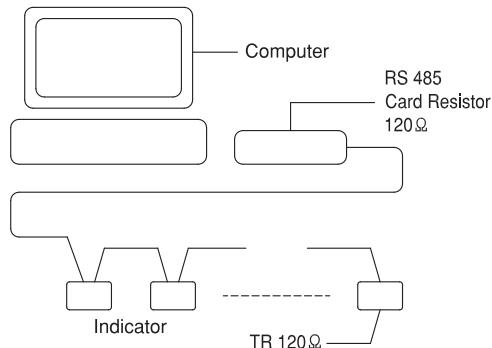
Remember the highest input value, display the highest value in ordinary times, and output the highest transmit output.

Peak mode 3 Low peak & Display mode

Remember the lowest input value, display the lowest value in ordinary times, and output the lowest transmit output.

► Communication interface

It is possible to communicate with computer and to monitor remote by using RS-485 and modbus communication interface.



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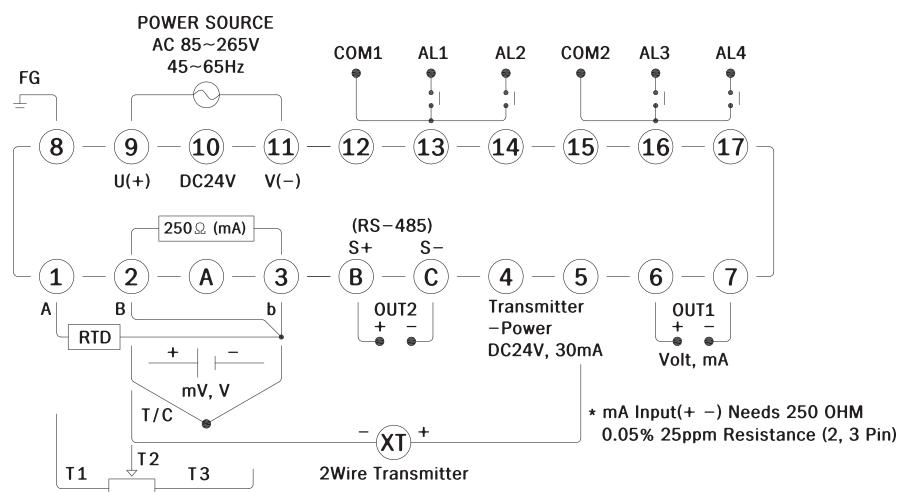
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ORDERING CODE

IC 3			W		Description
Type	1				Indicator
	2				Indicator with 2Alarm
	3				Indicator with 4Alarm
Analog output	0				None
	1				Isolation current 1output
	2				Isolation current 2output
Power	0				AC 85~265V (45~65Hz)
	1				DC 24V
	2				Etc
Interface		0			None
		1			RS-485
		2			Modbus RTU(485)

In case of 2AO dual output does not became interface communication.

TERMINAL DIAGRAM



DIMENSION & PANEL CUT

