

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



SPECIFICATIONS

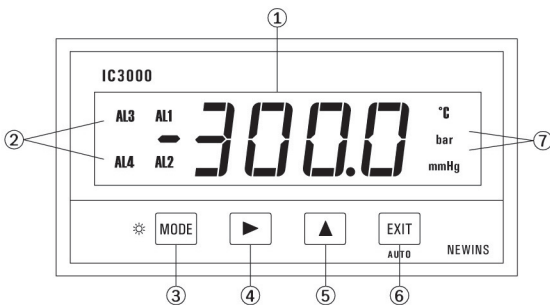
- ▶ **Measuring and display cycle :**
 200ms(mV, Volt, mA type)
 400ms(TC, RTD type)
- ▶ **Input resistance :** Volt-400kΩ
 Others type-1MΩ
- ▶ **Signal source resistance :** Pt 100Ω type-30Ω/line
 Others type-300Ω/line
- ▶ **CMRR(Common Mode Rejection Ratio) :** 140dB or more
- ▶ **NMRR(Normal Mode Rejection Ratio) :** 60dB or more
- ▶ **Moving average filter :** 4, 8, 16, 32
- ▶ **Built-in sensor power source :** DC 24V 30mA ±0.5%
- ▶ **Accuracy :** Display ±0.2% FS
- ▶ **Isolation current output(Optional)**
 Current : DC 4.00~20.00mA
 Maximum load resistance : 600Ω
 Isolation resistance(Input-Output) : 100MΩ or more
 (DC 500V)
- ▶ **Alarm(Optional)**
 Contact output type : Normal open
 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(Optional)
 Power consumption : Max 4VA
 Isolation resistance : 100MΩ, DC 500V
 (FG-Input, FG-Power,
 Power-Input, Input-Output)
- ▶ **Communication interface(Optional)**
 Type : RS-485 & modbus.RTU
 Speed : 4800, 9600, 19200bps
 ID(address) setting : 0~99
- ▶ **Etc**
 Weight : 500g
 Mounting : Panel mount
 Dimension : 99(W) X 51(H) X 112(D)mm

INPUT TYPE

Sensor Type	Range	Scale	Symbol	
TC	B(PR)	0~1800℃	-	ℓℓ-b
	R(PR)	0~1750℃	-	ℓℓ-r
	S(PR)	0~1750℃	-	ℓℓ-5
	K(CA)	-200~1350℃	-	ℓℓ-ℓ
	E(CRC)	-199.9~700.0℃	-	ℓℓ-E
	J(IC)	-199.9~800.0℃	-	ℓℓ-J
	T(CC)	-199.9~400.0℃	-	ℓℓ-ℓ
Volt	mV	-50.0~50.0mV	-1999~9999	ℓℓ
	Volt	-1.000~1.000V	-1999~9999	ℓℓ
	Volt	-10.0~10.0V	-1999~9999	ℓℓℓ
mA	mA	4.00~20.00mA	-1999~9999	ℓℓℓ
PT	Pt100Ω	-199.9~800.0℃	-	ℓℓ-ℓℓ
	JPt100Ω	-199.9~500.0℃	-	ℓℓ-ℓℓ

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

PARTS 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

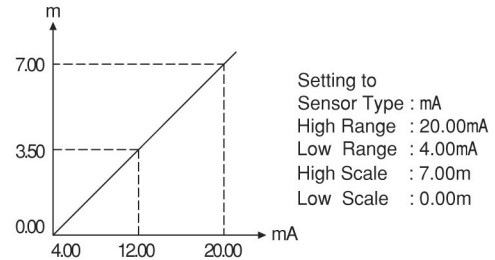
- Mode 1 - FND bright 100%
- Mode 2 - FND bright 75%
- Mode 3 - FND bright 25%
- Mode 4 - FND off

* 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.

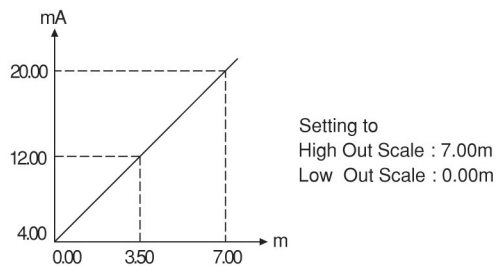
Ex) In case of input range 4.00~20.00mA and Level 0.00~7.00m



▶ 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)

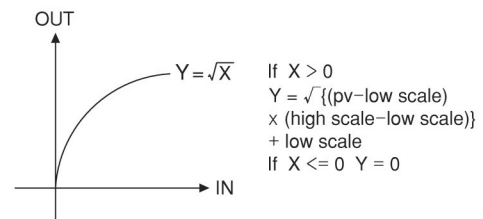
L in

Pass the input as it is.

Used for general input type and linearity input.

root

Pass the input after √. 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.

멀티 지시 경보계

DIGITAL INDICATOR WITH ALARM

▶ Sensor compensation function

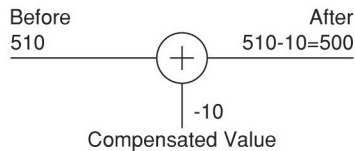
The function is useful for compensating error by long sensor line or changed zero point by aged sensor.

Ex) Before sensor adjust = 510°C

After sensor adjust

= measured value + compensated value

= 510 - 10 = 500°C



▶ Alarm function

Alarm type : High, Low

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

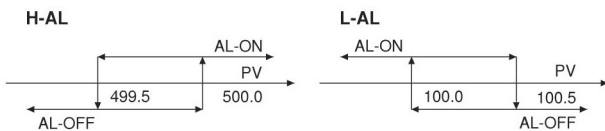
Ex) AL-1 : High alarm value 500.0,

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

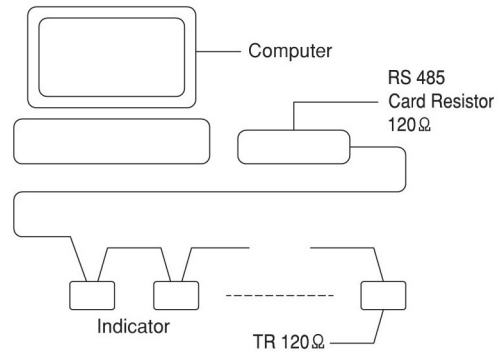
Remember the highest input value, display the highest value in ordinary times, and output the highest transmit output.

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.

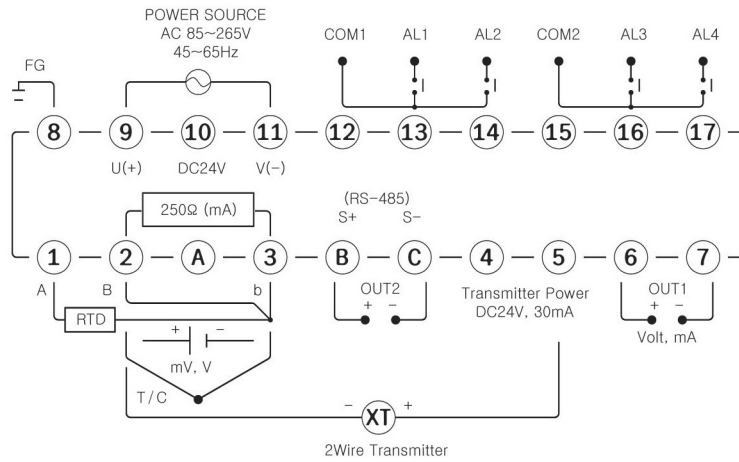


ORDERING CODE

IC 3					Description
Type	1			-	Indicator
	2				Indicator with 2Alarm
	3				Indicator with 4Alarm
Analog output	0				None
	1				DC 4.00~20.00mA
	2				DC 4.00~20.00mA (2 Output)
	3				Etc
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



* mA Input(+ -) Needs 250 OHM 0.05% 25ppm Resistance (2, 3 Pin)

DIMENSION & PANEL CUT

