

# NEWINS

# IC 1000M Series

## 3색 칼라 바- 지시계

## RGO Bar Indicators With Alarm

# A

### FEATURES

- RGO Color bar display setting
- Multi-range input (T/C, RTD, Volt, mA, Etc)
- Clear bar by 100mm (41 LED)
- Peak hold function (Highest & Lowest)
- RS-485 Communication interface
- 4 points alarm & Dead band set
- Isolation current output (DC 4.00~20.00mA) & Output scaling
- High brightness 41bar LED
- Sensor power source DC 24V in STD specification

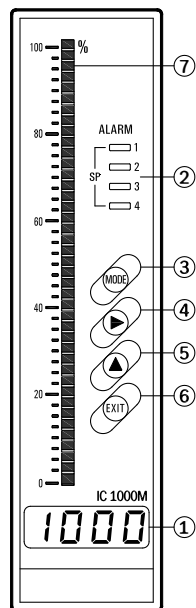


### SPECIFICATIONS

- |                                     |  |                       |  |
|-------------------------------------|--|-----------------------|--|
| ▶ Display color                     | : Red, Green, Orange   | ▶ Alarm(Optional)     |  |
| ▶ Measuring and display cycle       | : 200ms(mV, Volt, mA type)<br>400ms(TC, RTD type)                              | Contact output type   | : Normal open<br>(Normal close-Order made) |
| ▶ Input resistance                  | : Volt - 400k $\Omega$<br>Others type - 1M $\Omega$                            | Max switching power   | : 60W 125VA                                |
| ▶ Signal source resistance          | : Pt 100 $\Omega$ type - 30 $\Omega$ /line<br>Others type - 300 $\Omega$ /line | Max switching voltage | : DC 220V, AC 250V                         |
| ▶ CMRR(Common Mode Rejection Ratio) | : 140dB or more  | Max switching current | : DC 2A, AC                                |
| ▶ NMRR(Normal Mode Rejection Ratio) | : 60dB or more   | Max Carrying current  | : DC 3A, AC                                |
| ▶ Moving average filter             |  | ▶ Power supply        |  |
|                                     |  | Voltage               | : AC 85~265V(45~65Hz)<br>DC 24V(Optional)  |
|                                     |  | Power consumption     | : Max 4VA                                  |



**PARTS NAME**



- ① Measured value display
- 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 Bar display

**INPUT TYPE**

Sensor Type	Range	Scale	Symbol	
TC	R(PR 13%)	0~1750°C	-	ℓ[-r
	K(CA)	-200~1350°C	-	ℓ[-ℓ
	E(CRC)	-199.9~700.0°C	-	ℓ[-E
	J(IC)	-199.9~800.0°C	-	ℓ[-J
	T(CC)	-199.9~400.0°C	-	ℓ[-ℓ
Volt	mV	-100.0~100.0mV	-1999~9999	ñu
	Volt	-10.0~10.0V	-1999~9999	u
mA	mA	4.00~20.00mA	-1999~9999	ñR
PT	Pt100Ω	-199.9~800.0°C	-	d-Pℓ
	JPt100Ω	-199.9~500.0°C	-	J-Pℓ

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

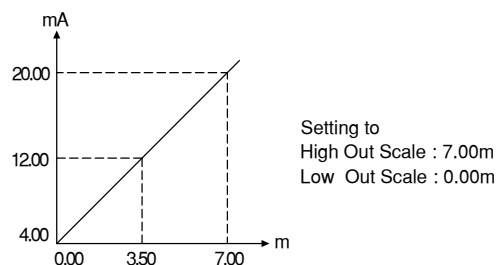
**MAJOR FUNCTIONS**

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

▷ **Output scaling function**

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

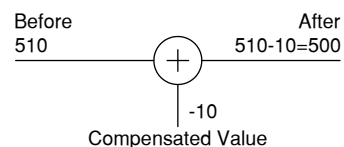
Ex) In case of display value 0.00~7.00m,  
Output 4.00~20.00mA



▷ **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



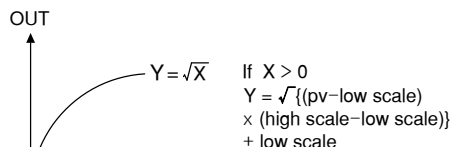
▷ **Function(mV, Volt, mA type)**

**lin**

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.



**Alarm function**

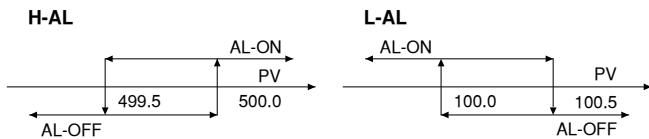
Alarm type : High, Low

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.

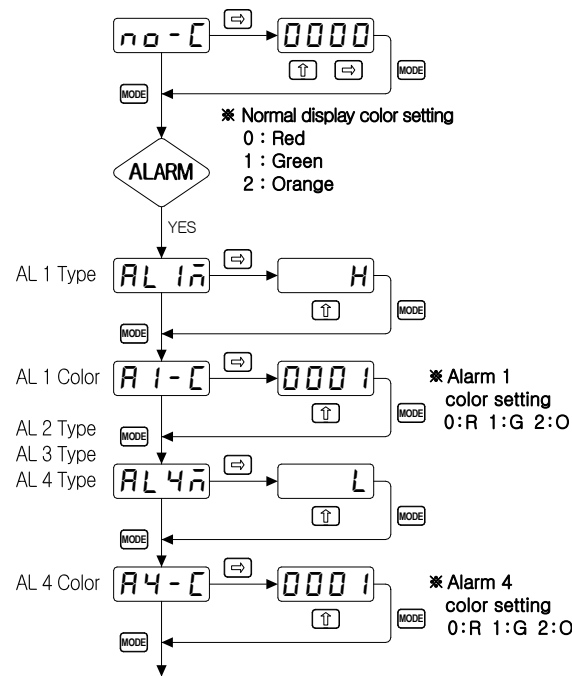
Peak mode 3 Low peak & Display mode

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

**RGO Display Color Setting**



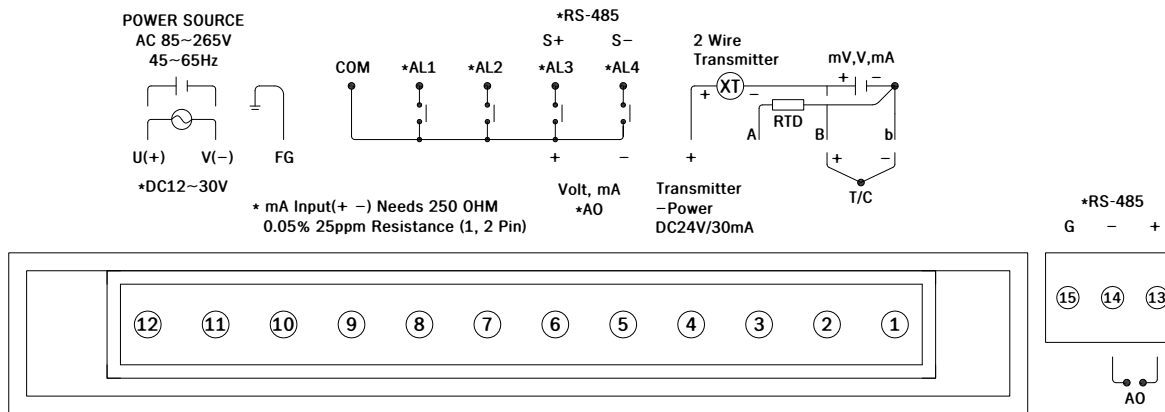


**ORDERING CODE**

Model	Type	Analog output	Power	Interface	Description
IC 1XXXM-X	1				Indicator
	2				Indicator with 2 Alarm
	3				Indicator with 4 Alarm
		0			None
		1			Output DC 4.00~20.00mA
		2			Etc (Consult to the factory)
			0		AC 85~265V (45~65Hz)
			1		DC 24Volt
				0	None
				1	RS-485
				2	Etc

\* It is possible to build in current output or communication when 4 alarm.

**TERMINAL DIAGRAM**



**DIMENSION & PANEL CUT**

