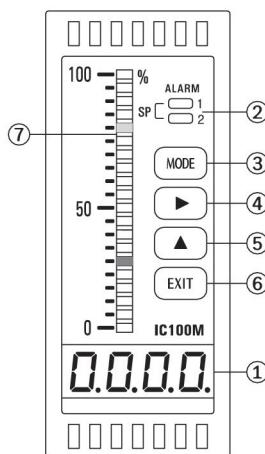


소형 3색 칼라 바-지시 & 경보계

SMALL RGO BAR TYPE INDICATOR WITH ALARM

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

▶ Multi range input

- Free input selection by code

	Sensor Type	Range	Scale	Symbol
TC	B(PR)	0~1800°C	-	EC-b
	R(PR)	0~1750°C	-	EC-r
	S(PR)	0~1750°C	-	EC-s
	K(CA)	-200~1350°C	-	EC-k
	E(CRC)	-199.9~700.0°C	-	EC-e
	J(IC)	-199.9~800.0°C	-	EC-j
	T(CC)	-199.9~400.0°C	-	EC-t
Volt	mV	-50.0~50.0mV	-1999~9999	nv
	Volt	-1.000~1.000V	-1999~9999	lv
	Volt	-10.0~10.0V	-1999~9999	10lv
mA	mA	4.00~20.00mA	-1999~9999	nr
PT	Pt100Ω	-199.9~800.0°C	-	d-Pt
	JPt100Ω	-199.9~500.0°C	-	J-Pt

* mA input needs 250Ω 0.05% 25ppm resistance spiral on outside

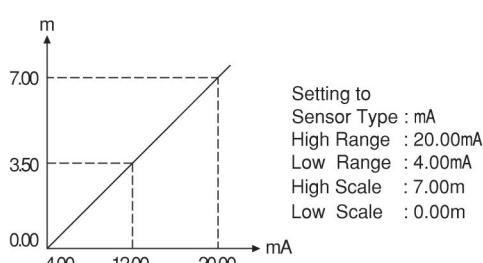
MAJOR FUNCTIONS

▶ 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

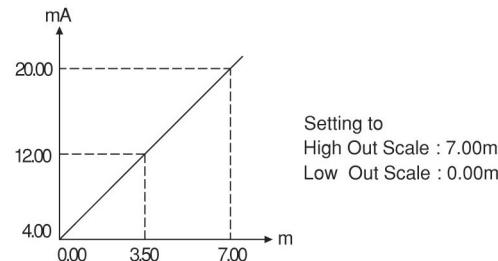


▶ Output scaling function

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)

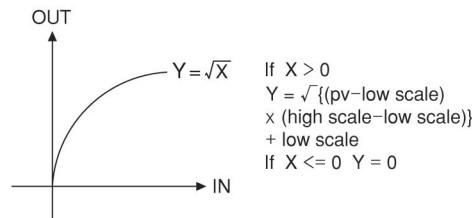
Lin

Pass the input as it is.

Used for general input type and linearity input.

root

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



LinE

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

▶ Alarm function

Alarm type : High, Low

The alarm consists of 2 relays, and it can output relay contact output individually

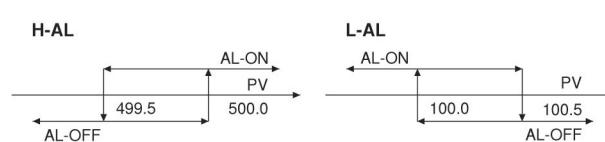
Ex) AL-1 : High alarm value 500.0,

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.



소형 3색 칼라 바-지시 & 경보계

SMALL RGO BAR TYPE INDICATOR WITH ALARM

▶ Filter function

5-Kinds of average transfer filter function.

- 1) Because input is irregular use when output and display are unstable.
- 2) When need high speed reply, if use filter, response is slow.

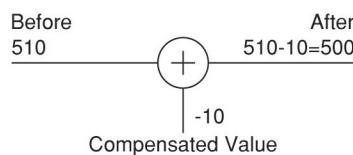
▶ Sensor compensation function

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

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



▶ 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

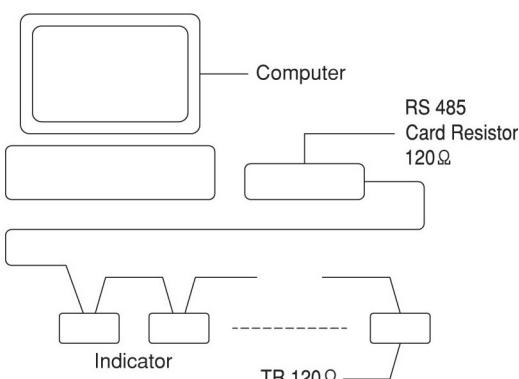
Remember the highest input value, display the highest value in ordinary times, and output the highest transmit output.

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.

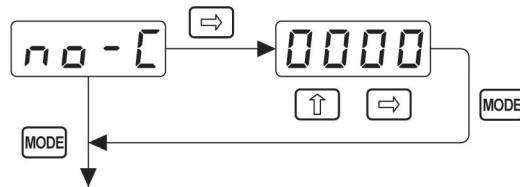
▶ Communication interface

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



RGO BAR COLOR SETTING

▶ Main bar color setting



▶ Auto alarm color point

① Main bar(**Red**)

- AL1 : Orange
- AL2 : Green

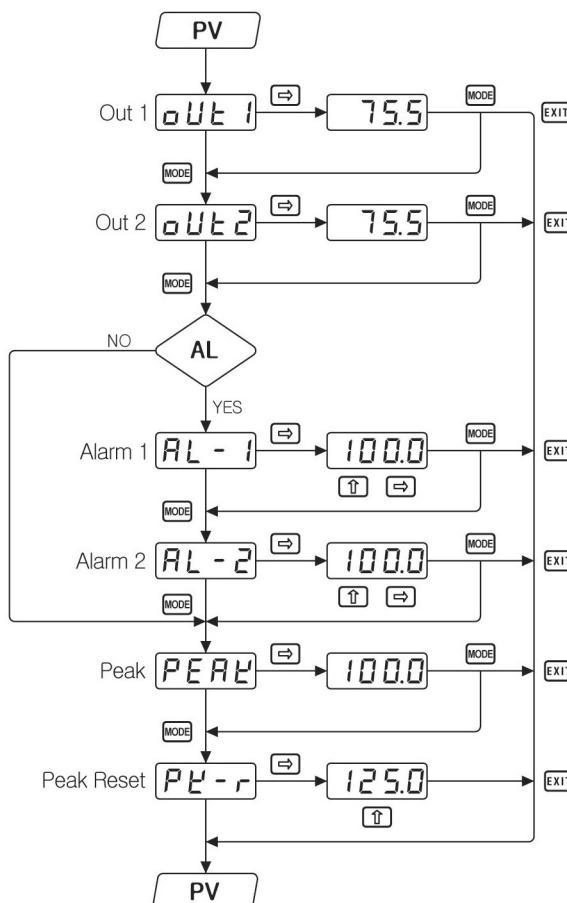
② Main bar(**Green**)

- AL1 : Red
- AL2 : Orange

③ Main bar(**Orange**)

- AL1 : Green
- AL2 : Red

OPERATION MODE



※ Note

- After alarm setting presses **EXIT** key, the set being completed.

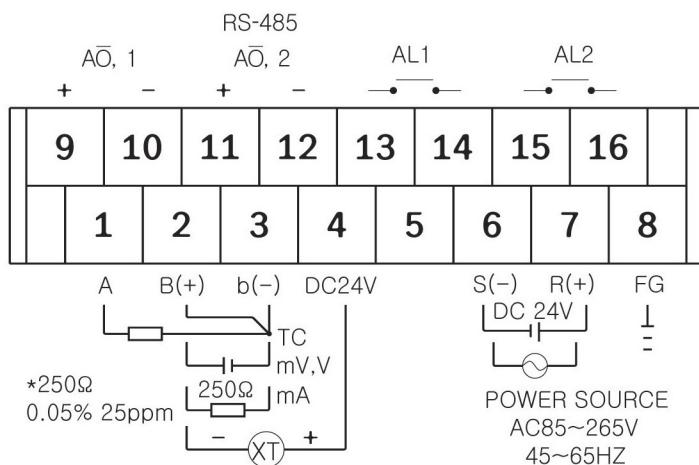
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SMALL RGO BAR TYPE INDICATOR WITH ALARM

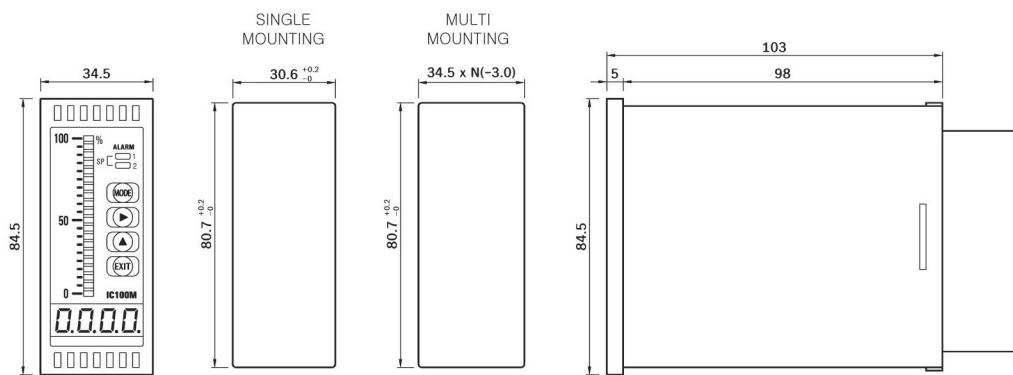
ORDERING CODE

IC 1	M	Description
Analog output	0	2ALARM
	1	2ALARM + DC 4.00~20.00mA
	2	2ALARM + DC 1~5V
	3	2ALARM + DC 4.00~20.00mA (2 Output)
	4	2ALARM + DC 1~5V (2 Output)
	5	2ALARM + DC 4.00~20.00mA + 1~5V
	6	2ALARM + DC 4.00~20.00mA + RS-485
	7	2ALARM + DC 1~5Volt + RS-485
	8	DC 4.00~20.00mA
	9	DC 1~5V
	10	Etc
Power	0	AC 85~265V (45~65Hz)
	1	DC 12~32V
	2	Etc
Interface	0	None
	1	RS-485
	2	Modbus RTU

TERMINAL DIAGRAM



DIMENSION & PANEL CUT



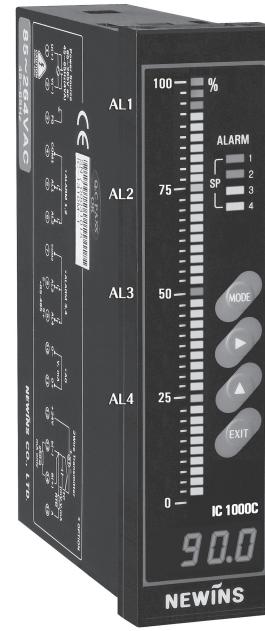
* N = QTY

3색 칼라 바-지시계

RGO BAR TYPE INDICATOR WITH ALARM

FEATURES

- RGO Color bar display setting
- Multi-range input (T/C, RTD, Volt, mA, Etc)
- Clear bar by 100mm (40bar 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 40bar LED
- Sensor power source DC 24V in STD specification



Bar Color Setting

0 : Red 1 : Green
2 : Orange 3 : None

SPECIFICATIONS

- ▷ Bar color : Red, Green, Orange
- ▷ 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
Bar ±2.4% FS
- ▷ Isolation current output(Option)
 - Current : DC 4.00~20.00mA
 - Maximum load resistance : 600Ω
 - Isolation resistance(Input-Output) : 100MΩ or more
(DC 500V)
- ▷ Ambient temperature & Humidity
 - Operation : -10~50°C, 10~90%
 - Storage : -20~70°C, 5~95%

▷ 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

▷ 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
- Speed : 4800, 9600, 19200bps
- ID(address) setting : 0~15

▷ Etc

- Weight : 500g
- Mounting : Panel mount
- Dimension : 35.5(W) X 143(H) X 111(D)mm