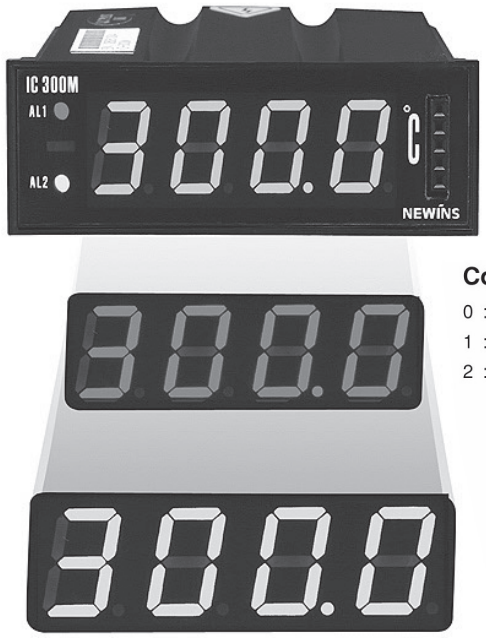
MOSAIC 지시 경보계
SMALL RGO INDICATOR WITH ALARM

FEATURES

- **RGO Color display setting**
- **Multi-range input** (T/C, RTD, Volt, mA, Etc)
- **High accuracy 16bit A/D converter**
- **Peak hold function** (Highest & Lowest)
- **2 points alarm & Dead band set**
- **Two unit function it can automatically convert the mmHg and bar when measuring the pressure and vacuum.**
- **Sensor power source DC 24V in STD specification**



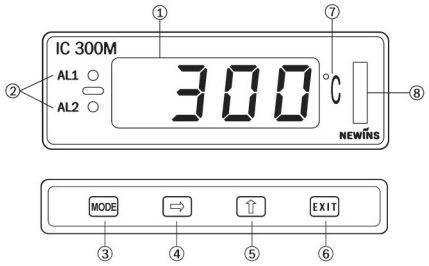
Color Setting
0 : Red
1 : Green
2 : Orange

SPECIFICATIONS

- **Display 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** : ±0.2% FS
- **Ambient temperature & Humidity**
  Operation : -10~50℃, 10~90%
  Storage : -20~70℃, 5~95%

- **Alarm(Option)**
  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
- **Power supply**
  Voltage : DC 12~32V
  Power consumption : Max 1.5W
  Isolation resistance : 100MΩ, DC 500V
  (FG-Input, FG-Power,
  Power-Input, Input-Output)
- **Etc**
  Weight : 200g
  Mounting : Panel mount
  Dimension : 75(W) X 25(H) X 98(D)mm

PARTS NAME



① Measured value display : RGO 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
⑧ Key connector

INPUT TYPE

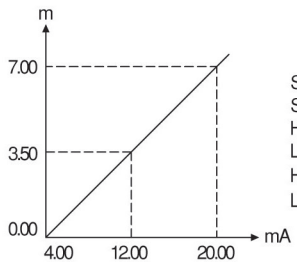
Sensor Type		Range	Scale	Simbol
TC	R(PR 13%)	0~1750℃	-	tC-r
	K(CA)	-200~1350℃	-	tC-K
	E(CRC)	-199.9~700.0℃	-	tC-E
	J(IC)	-199.9~800.0℃	-	tC-J
	T(CC)	-199.9~400.0℃	-	tC-t
Volt	mV	-100.0~100.0mV	-1999~9999	mu
	Volt	-10.0~10.0V	-1999~9999	u
mA	mA	4.00~20.00mA	-1999~9999	mA
PT	Pt100Ω	-199.9~800.0℃	-	d-Pt
	JPt100Ω	-199.9~500.0℃	-	J-Pt

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



Setting to
Sensor Type : mA
High Range : 20.00mA
Low Range : 4.00mA
High Scale : 7.00m
Low Scale : 0.00m

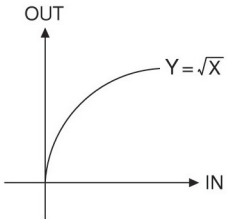
▷ **Function(mV, Volt, mA type)**

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.



If X > 0
Y = √{(pv−low scale) x (high scale−low scale)} + low scale
If X <= 0 Y = 0

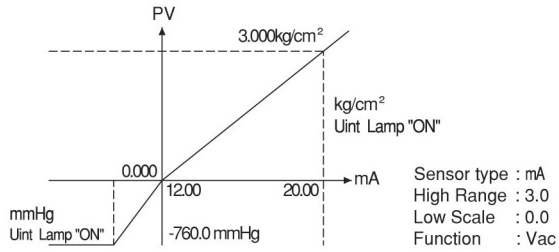
LInt

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

uAC

This is the function when measuring from vacuum to pressure(-760.0mmHg~3.000kg/㎠) by pressure transmitter, it converts unit and PV to mmHg under zero value and to scaled kg/㎠ setting to scale high above zero value.
It is possible to trim the zero point in the atmosphere pressure by key used for sensor compensation.

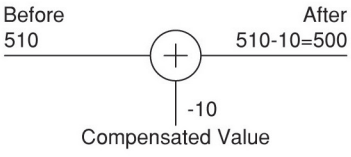
Ex) To see from vacuum to pressure in transmitter specification range -760.0mmHg~3.000kg/㎠ and output 4.00~20.00mA



▷ **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℃
After sensor adjust
= measured value + compensated value
= 510 - 10 = 500℃



▹ Alarm function

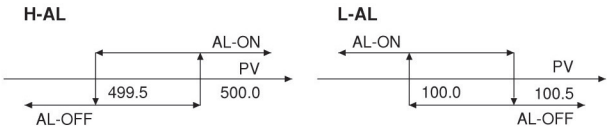
Alarm type : High, Low

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.

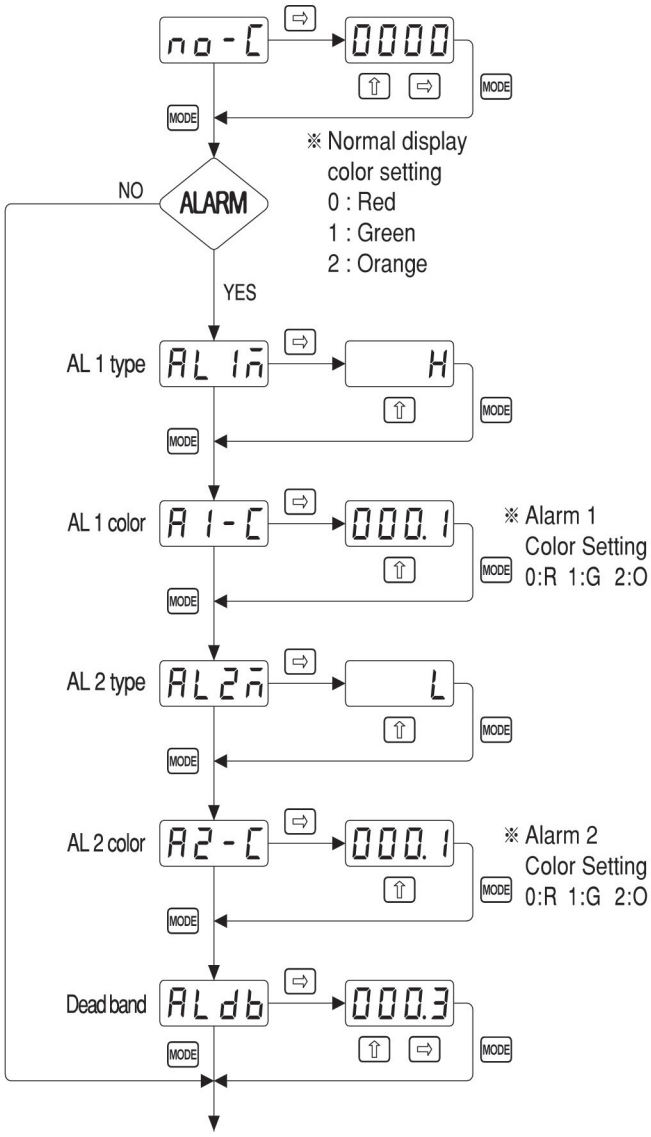
Peak mode 2 High peak & Display mode

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.

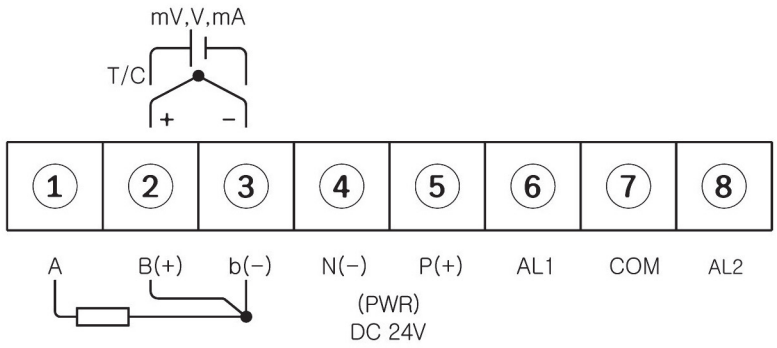
RGO DISPLAY COLOR SETTING



ORDERING CODE

IC 3			M	Description
Output	0			None
	1			2Alarm
Power		0		DC 24V
		1		Etc

TERMINAL DIAGRAM



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

DIMENSION & PANEL CUT