NEWINS

알지오 멀티 지시 경보계

IC 3000M Series

RGO **Multi Indicators With Alarm**

FEATURES

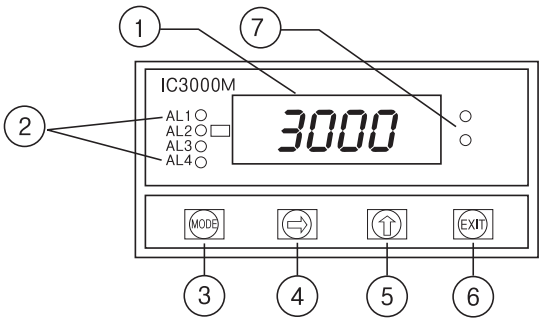
- RGO Color display settintg
- Multi-range input (T/C, RTD, Volt, mA, etc)
- High accuracy 16bit A/D converter
- Peak hold function (Highest & Lowest)
- RS-485 communication interface
- 4-points alarm & Dead band set
- Isolation current output(4~20mADC) & Output scaling
- Two unit function It can automatically convert the mmHg and kg/㎠ when measuring the pressure and vacuum.
- Sensor power source DC24V STD specification

Color setting
0:RED
1:GREEN
2:ORANGE

SPECIFICATIONS

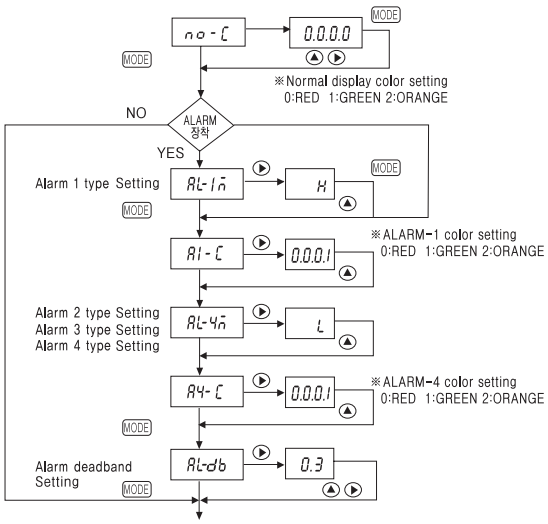
- **Display color** : Red, Green, Orange
- **Measuring and display cycle** : 200ms(mV, Volt, mA type)
  400ms(TC, RTD type)
- **Input resistance** : Volt - 400kΩ
  Others type-1kΩ
- **Signal source resistance** : Pt100Ω type - 30Ω/line
  Others type-300Ω/line
- **CMRR (Common Mode Rejection Ratio)** : 140dB or more
- **NMRR (Normal Mode Rejection Ratio)** : 60dB or more
- **Moving average filter**
- **Built-in Sensor power source** : DC24V 30mA±0.5%
- **Accuracy** : ±0.2%FS
- **Isolation current output (Option)**
  - Current : 4~20mADC
  - Maximum load resistance : 600Ω
  - Isolation resistance (Input-Output) : 100kΩ or more (500VDC)
- **Alarm (Option)**
  - Contact output type : Normal open
    (Normal close - Order made)
  - Max switching power : 60W 125VA
  - Max switching voltage : 220VDC, 250VAC
  - Max switching Current : 2A DC, AC
  - Max Carrying current : 3A DC, AC
- **Ambient temperature & Humidity**
  - Operation : -10℃~60℃, 10%~90%
  - Storage : -20℃~70℃, 5%~95%
- **Power supply**
  - Voltage: AC110/220V (50/60Hz)
    DC24V (Option)
  - Power consumption : 4VA Max
  - Isolation resistance : 100㏁ 500VDC
    (FG-Input, FG-Power,
    Power-Input, Input-Output)
- **Communication interface (Option)**
  - Type : RS-485, 422
  - Speed : 4800, 9600, 19200bps
  - ID(address) setting : 0~15
- **Etc**
  - Weight : 500g
  - Mounting : Panel mount
  - Dimension : 96(W)×48(H)×112(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 Automatically convert the mmHg &kg/㎠

RGO display Color setting



INPUT TYPE

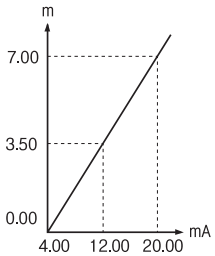
Type		Range	Scale	Simbol
TC	R(PR13%)	0~1750℃	-	tC-r
	K(CA)	-200~1350℃	-	tC-K
	E(CRC)	-200.0~700.0℃	-	tC-E
	J(IC)	-200.0~800.0℃	-	tC-J
	T(CC)	-200.0~400.0℃	-	tC-t
Volt	mV	-100~100mV	-1999~9999	nu
	Volt	-10~10V	-1999~9999	u
mA	mA	4~20mA	-1999~9999	nA
PT	Pt100Ω	-200.0~800.0℃	-	Pt
	JPT100Ω	-200.0~500.0℃	-	JPt

MAJOR FUNCTION

• 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 4.0~20.0mA and Level 0.000~7.000m



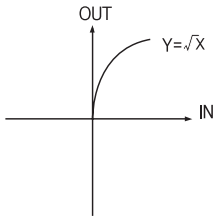
Setting to
Sensor type : mA
High Range : 20.00mA
Low Range : 4.00mA
High Scale : 7.000
Low Scale : 0.000

• Function (mV, Volt, mA type only)

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

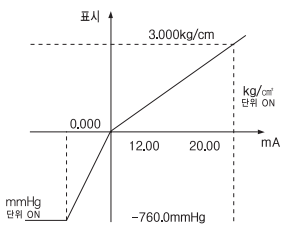


LinE Like level measuring, when it does not display measuring under zero, it always can display zero by using limit function.

uAC This is the function when measuring from vacuum to pressure (-760mmHg ~ 3.0kg/㎠) 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 transmitterspecification range -760~3.000 kg/cm² and output 4~20mA



Sensor type : mA
High Range : 3.0
Low Scale : 0.0
Function : VAC

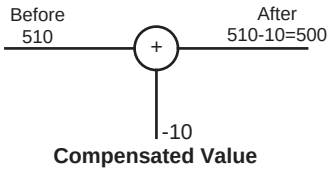
• Sensor compensation function

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

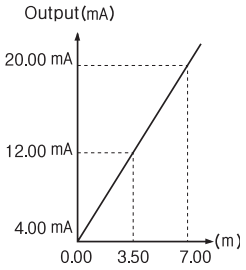


• Output scaling function

This function can change the 4~20mA value as the output scale.

Ex) In case of display value 0.000~7.000m, Output 4~20mA

setting to High out scale : 7.000 Low out scale : 0.000



Setting to

High out Scale : 7.000

Low out Scale : 0.000

• Alarm function

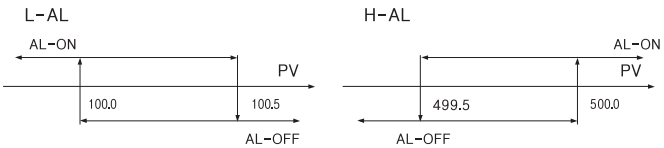
Alarm type : High, Low

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 low 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

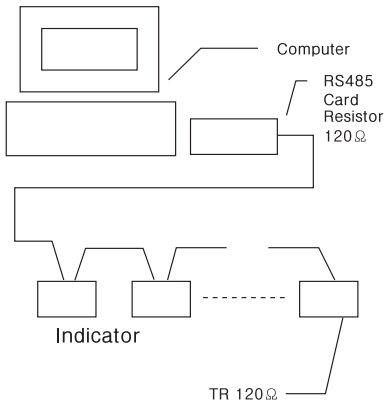
Remember the highest input value, display the highest value in ordinary times, and output the highest transmit output.

Peak mode 3: Low peak & Display mode

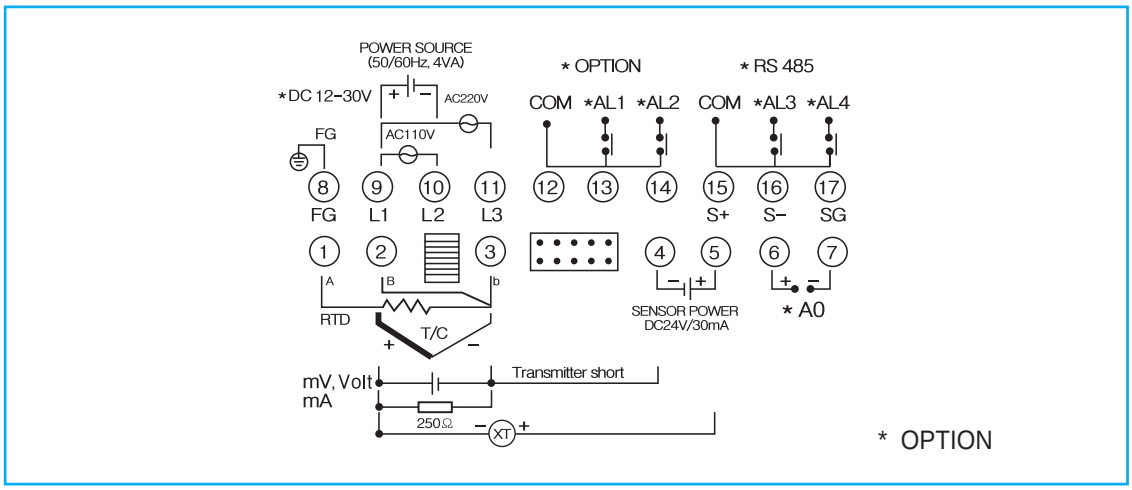
Remember the lowest input value, display the lowest value in ordinary times, and output the lowest transmit output.

• Communication interface

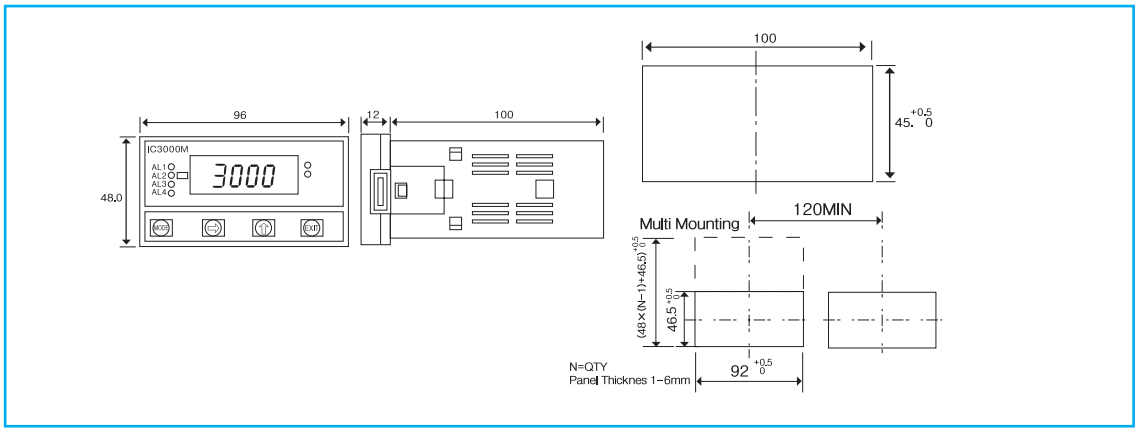
It is possible to communicate with computer and to monitor remote remote by using RS-485 communication



TERMINAL DIAGRAM



DIMENSION & PANEL CUT



ORDERING CODE

IC3 A B C M - D E

A TYPE
1. Indicator
2. Indicator with 2 Alarm
3. Indicator with 4 Alarm

B ANALOG OUTPUT
0. None
1. Isolation current output 4~20mADC
2. Etc (consult to the factory)

C POWER
0. AC110/ 220 Volt
1. DC24 Volt
2. Etc

D Communication interface
0. None
1. RS-485
2. RS-422
3. Etc

E Special input
0. None
1. Cu(10Ω, 20Ω,30Ω)
2. Etc.

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대리점: