

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(4~20mADC) & Output scaling
- High brightness 41bar LED
- Sensor power source DC24V STD specification



SPECIFICATIONS

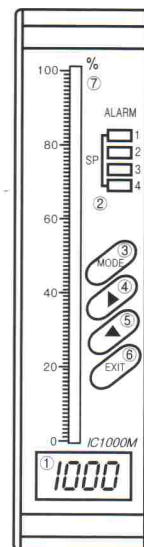
- | | |
|---|--|
| <ul style="list-style-type: none"> • Display color : Red, Green, Orange • Measuring and display cycle : 200ms(mV, Volt, mA type)
400ms(TC, RTD type) • Input resistance : Volt - 400kΩ
Others type-1MΩ • Signal source resistance Pt100Ω type - 30Ω/line
Others type-300Ω/line • CMRR (Common Mode Rejection Ratio) : 140db or more • NMRR (Normal Mode Rejection Ratio) : 60dB or more • Moving average filter • Built-in Sensor power source : DC24V 30mA\pm0.5% • Accuracy : Display \pm0.2%FS
Bar \pm2.4%FS • Isolation current output (Option)
Current : 4~20mADC
Maximum load resistance : 600Ω
Isolation resistance (Input-Output): 100MΩ 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 | <ul style="list-style-type: none"> • Ambient temperature & Humidity
Operation : -10$^{\circ}$C~60$^{\circ}$C, 10%~90%
Storage : -20$^{\circ}$C~70$^{\circ}$C, 5%~95% • Power supply
Voltage : AC90~240V
45~65Hz
DC24V (Option)
Power consumption : 4VA Max
Isolation resistance : 100MΩ 500VDC
(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 :
36.0(W) \times 144.0(H) \times 169.5(D)mm |
|---|--|

INPUT TYPE

Type		Range	Scale	Symbol
TC	R(PR13%)	0~1750°C	-	ℓℓ-r
	K(CA)	-200~1350°C	-	ℓℓ-ℓ
	E(CRC)	-200.0~700.0°C	-	ℓℓ-ℓ
	J(IC)	-200.0~800.0°C	-	ℓℓ-J
	T(CC)	-200.0~400.0°C	-	ℓℓ-ℓ
Volt	mV	-100~100mV	-1999~9999	m̄u
	Volt	-10~10V	-1999~9999	v
mA	mA	4~20mA	-1999~9999	m̄A
PT	Pt100Ω	-200.0~800.0 °C	-	Pℓ
	JPT100Ω	-200.0~500.0 °C	-	JPℓ

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

PARTS NAME



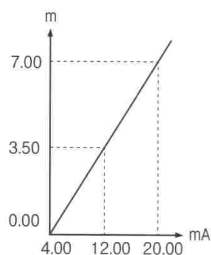
- ① Measured value display
- ② Alarm condition display
- ③ "MODE" key : storage the set data and change the operation menu
- ④ "▶" Key : enter into the data setting mode and modify the changed location
- ⑤ "▲" Key : change the data value
- ⑥ "EXIT" Key : out of mode
- ⑦ Bar display

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



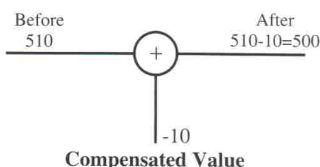
Setting to
 Sensor type : mA
 High Range : 20.00mA
 Low Range : 4.00mA
 High Scale : 7.000
 Low Scale : 0.000

• 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

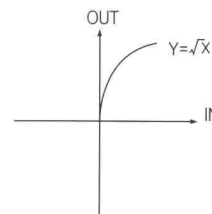


• Function (mV, Volt, mA type)

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
 $Y = \sqrt{\{(pv - \text{low scale}) \times (\text{high scale} - \text{low scale})\} + \text{low scale}}$
 if x <= 0 Y=0



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

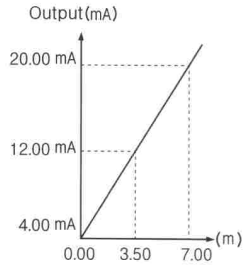
• Bar display

According to display scale set, Low scale is 0%(1bar LED on). High scale is 100% (41bar LED on)

*Bar scale range is fixed from 0% to 100% fix

• 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

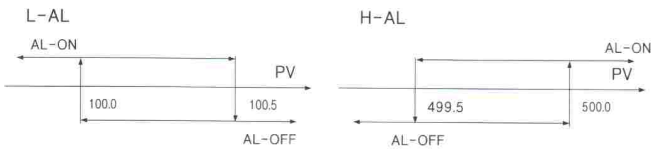
Alarm type : High, Low

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 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.

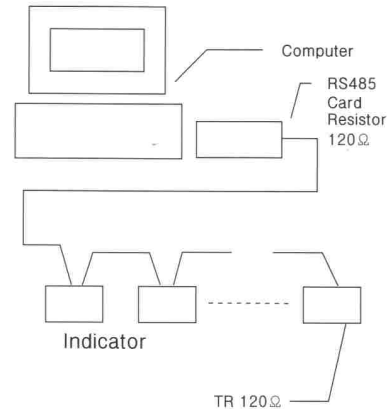


• Peak hold function

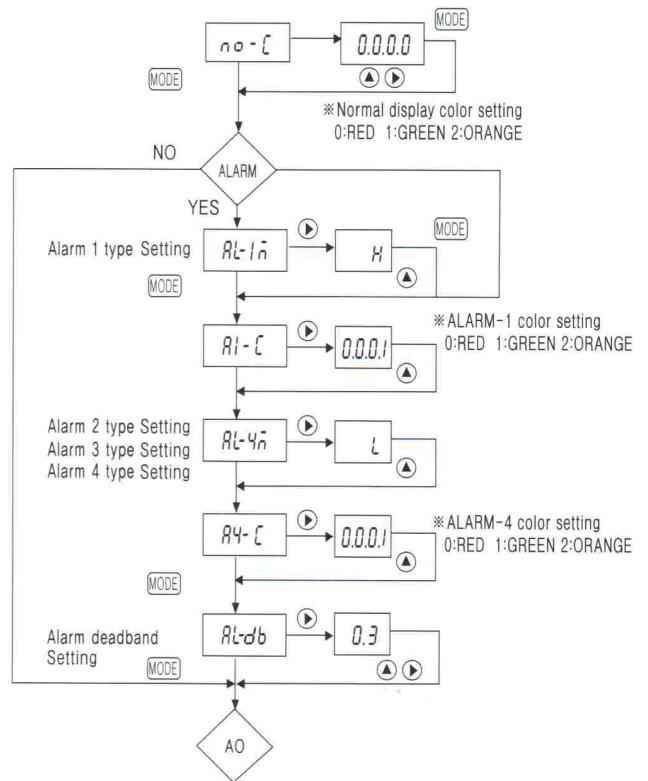
- Peak mode 0:** High peak mode
Remember the highest input value and display the highest value when pressing the key.
- Peak mode 1:** Low peak mode
Remember the lowest input value and display the lowest value when pressing the key.
- Peak mode 2:** High peak & Display mode
Remember the highest input 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 communication



RGO display Color setting



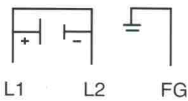
ORDERING CODE

MODEL	TYPE	ANALOG OUTPUT	POWER	INTER FACE	DESCRIPTION	
IC1	1				INDICATOR	
					WITH 2ALARM	
					WITH 4ALARM	
		0				NONE
					OUTPUT 4~20mA DC	
					ETC(CONSULT TO THE FACTORY)	
			0			AC 90~240V (45~65Hz)
						DC 24 VOLT
				0		NONE
						RS-485
					ETC	

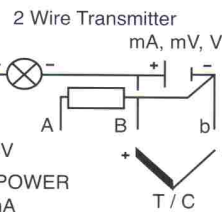
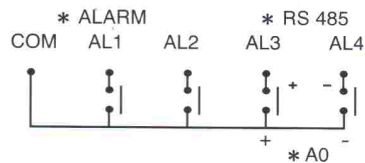
* It is possible to bulid in current output or comunication when 4alarm.

TERMINAL DIAGRAM

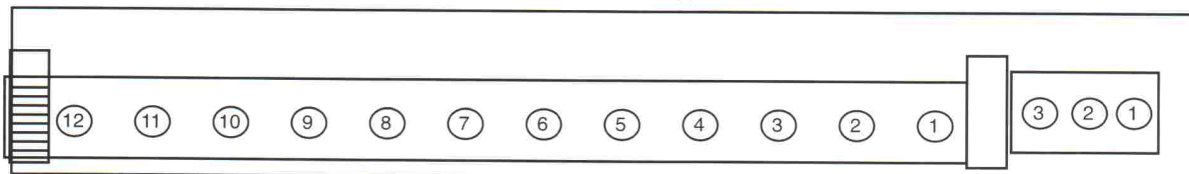
POWER SOURCE
AC90~240V
(45~65Hz, 4VA)



L1 L2 FG
* DC12~30V



- A0
- RS485 1
- G - +



DIMENSION & PANEL CUT

