

FEATURES

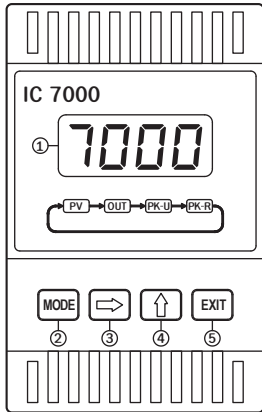
- Multi-range input (T/C, RTD, mV, V, mA, Etc)
- High accuracy 16bit A/D converter
- Peak hold function (Highest & Lowest)
- Burnout function
- RS-485 Communication interface
- 2, 4 points alarm & Dead band set
- Isolation current output (DC 4.00~20.00mA) & Output scaling
- Sensor power source DC 24V in STD specification
- Exit IN/OUT hold



SPECIFICATIONS

- ▶ **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**
- ▶ **Built-in Sensor power source** : DC 24V 30mA ±0.5%
- ▶ **Accuracy** : ±0.2% FS
- ▶ **Isolation current output**
(2 output is isolation between output)
Current : DC 4.00~20.00mA
Maximum load resistance : 600Ω
Isolation resistance(Input-Output) : 100MΩ or more
(DC 500V)
- ▶ **Isolation voltage output(Optional)**
Voltage : DC 0~10V
Minimum load resistance : 1kΩ or more
Isolation resistance(Input-Output) : 100MΩ or more
(DC 500V)
- ▶ **Alarm output(Alarm setter)**
Contact output type : Normal open, Normal close
Max switching power : 60W 125VA
Max switching voltage : DC 220V, AC 250V
Max switching current : DC 2A, AC
Max Carrying current : DC 3A, AC
- ▶ **Ambient temperature & Humidity**
Operation : -10~50°C, 10~90%
Storage : -20~70°C, 5~95%
- ▶ **Power supply**
Voltage : AC 110/220V(50~60Hz)
DC 24V(Optional)
Power consumption : Max 4VA
Isolation resistance : 100MΩ, DC 500V
(FG-Input, FG-Power, Power-Input, Input-Output)
- ▶ **Communication interface(Optional)**
Type : RS-485
Speed : 4800, 9600, 19200bps
ID(address) setting : 0~15
- ▶ **Etc**
Weight : 500g
Mounting : Din rail & wall mounted
Dimension : 50(W) X 80(H) X 102(D)mm

PARTS NAME



- ① Measured value display
- ② **MODE** Key :
Storage the set data and change the operation menu
- ③ **ENTER** Key :
Enter into the data setting mode and modify the changed location
- ④ **UP** Key :
Change the data value
- ⑤ **EXIT** Key :
Out of mode

INPUT TYPE

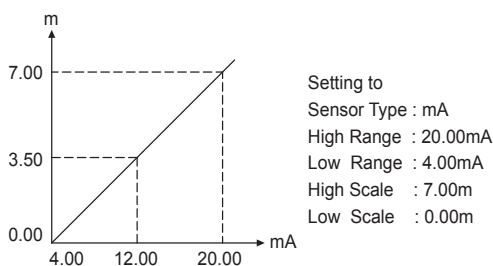
Sensor Type	Range	Scale	Symbol	
TC	R(PR 13%)	0~1750℃	-	ℓ[-r
	K(CA)	-200~1350℃	-	ℓ[-ℓ
	E(CRC)	-199.9~700.0℃	-	ℓ[-E
	J(IC)	-199.9~800.0℃	-	ℓ[-J
Volt	T(CC)	-199.9~400.0℃	-	ℓ[-ℓ
	mV	-100.0~100.0mV	-1999~9999	ñu
mA	Volt	-10.0~10.0V	-1999~9999	u
	mA	4.00~20.00mA	-1999~9999	ñR
PT	Pt100Ω	-199.9~800.0℃	-	d-Pℓ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

MAJOR FUNCTIONS

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

This function changes and sets the display value according to scale and input range.

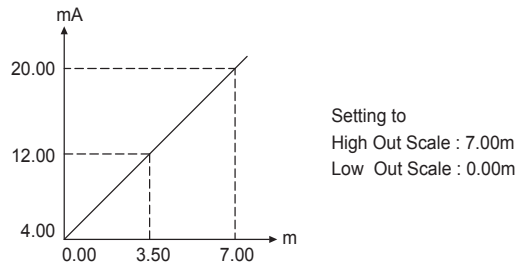
Ex) In case of input range 4.00~20.00mA and Level 0.00~7.00m



▷ 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)

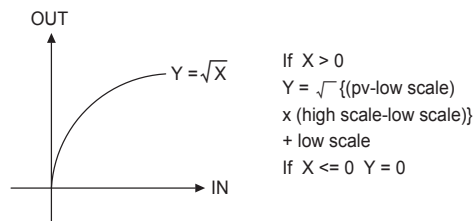
lin

Pass the input as it is.

Used for general input type and linearity input.

root

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



limit

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.

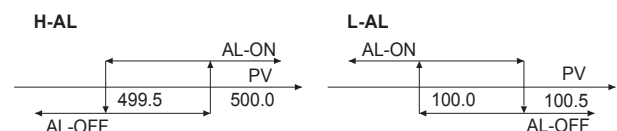
Ex) AL-1 : High alarm value 500.0,

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.



▷ **Sensor compensation function**

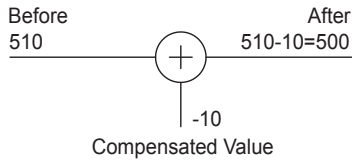
The function is useful for compensating error by long sensor line or changed zero point by aged sensor.

Ex) Before sensor adjust = 510℃

After sensor adjust

= measured value + compensated value

= 510 - 10 = 500℃



▷ **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

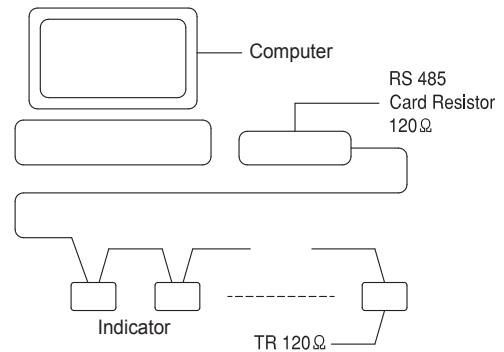
Remember the highest input value, display the highest value in ordinary times, and output the highest transmit output.

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.

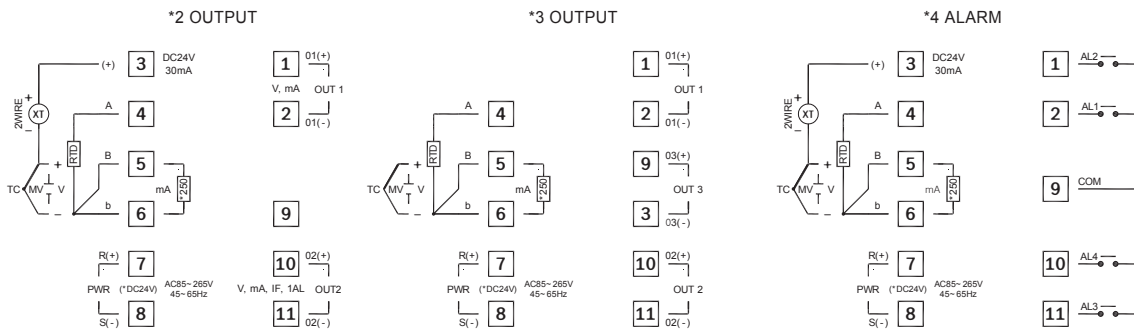
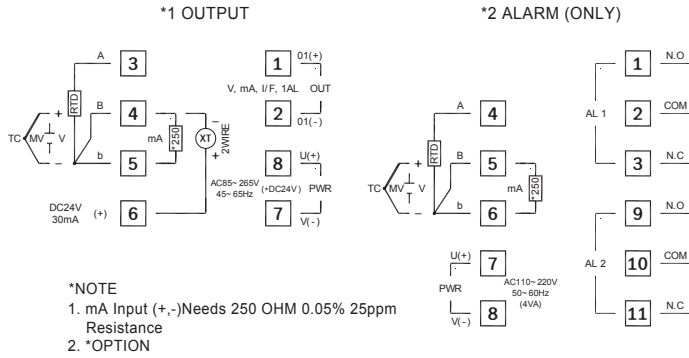


ORDERING CODE

IC 71			Description
Analog output	0		DC 4.00~20.00mA
	1		DC 4.00~20.00mA (2 Output)
	2		DC 1.0~5.0V
	3		DC 1.0~5.0V (2 Output)
	4		DC 0~10V
	5		DC 0~10V (2 Output)
	6		DC 4.00~20.00mA (3 Output)
	7		RS-485(422)
	8		Exit IN/OUT Hold
	9		Etc
Power	0		AC 85~265V(45~65Hz)
	1		DC 24V

IC 72			Description
Analog output	0		DC 4.00~20.00mA + Alarm
	1		DC 0.0~10.0V + Alarm
	2		Etc
	3		Alarm relay contact - 2Alarm
	4		Alarm relay contact - 4Alarm
Power	0		AC 110/220V
	1		DC 24V

TERMINAL DIAGRAM



DIMENSION & PANEL CUT

