

FEATURES

IC 5000

- 5 channel individually setting signal input
- Multi-range input (T/C, RTD, Volt, mA)
- Display & Output scaling (mV, V, mA)
- Peak hold function (Highest & Lowest)
- RS-485 Communication interface
- 1 points alarm & Dead band set
- Isolation current output (DC 4.00~20.00mA) & Output scaling (Choice - Ch, Hi, Low, Av)
- Sensor compensation function



IC 5100

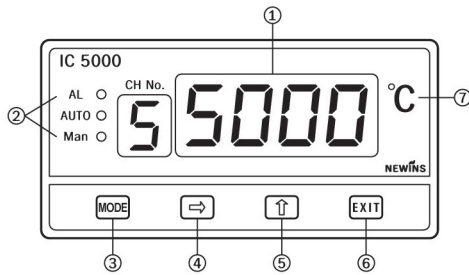
- 2 channel RTD only
- 2 points alarmed Dead band set (PV 2, absolute value of deviation)
- Isolation current output 2 output scaling option

SPECIFICATIONS

- ▶ Measuring and display cycle : 1sec
display cycle : 1~9 sec set
- ▶ 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
- ▶ Accuracy : ±0.2% FS
- ▶ Isolation current output(Optional)
Current : DC 4.00~20.00mA
Maximum load resistance : 600Ω
Isolation resistance(Input-Output) : 100MΩ or more (DC 500V)
- ▶ Alarm(Optional)
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

- ▶ 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 : Panel mount
Dimension : 99(W) X 51(H) X 112(D)mm

PARTS NAME



- ① Measured value display
- ② Alarm condition 5channel 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

INPUT TYPE

Sensor Type	Range	Scale	Symbol	
TC	B(PR)	0~1800°C	-	ℓℓ-b
	R(PR)	0~1750°C	-	ℓℓ-r
	S(PR)	0~1750°C	-	ℓℓ-S
	K(CA)	-200~1350°C	-	ℓℓ-ℓ
	E(CRC)	-199.9~700.0°C	-	ℓℓ-E
	J(IC)	-199.9~800.0°C	-	ℓℓ-J
	T(CC)	-199.9~400.0°C	-	ℓℓ-t
Volt	mV	-50.0~50.0mV	-1999~9999	ñυ
	Volt	-1.000~1.000V	-1999~9999	iυ
	Volt	-10.0~10.0V	-1999~9999	i0υ
mA	mA	4.00~20.00mA	-1999~9999	ñR
PT	Pt100Ω	-199.9~800.0°C	-	d-Pℓ
	JPt100Ω	-199.9~500.0°C	-	J-Pℓ

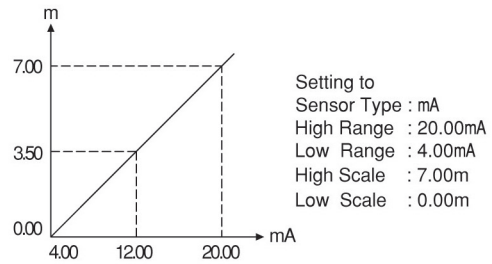
* IC 5100 : RTD only

MAJOR FUNCTIONS

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

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

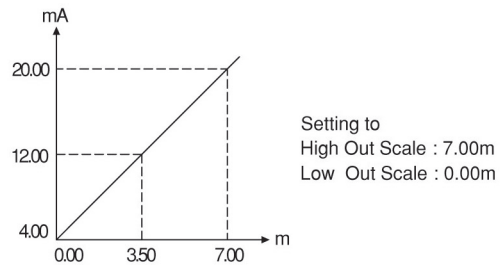
Ex) In case of input range 4.00~20.00mA and Level 0.00~7.00m



▷ Output scaling function(Hi, Low, Avg)

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

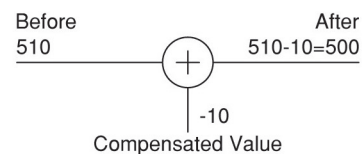


▷ Sensor compensation function

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
= measured value + compensated value
= 510 - 10 = 500°C



5CH 디지털 지시 경보계

5CH INPUT DIGITAL INDICATORS WITH ALARM

▶ Alarm function

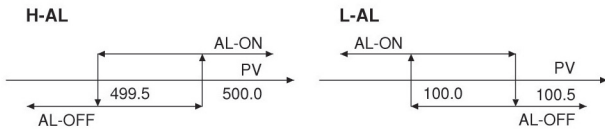
Alarm type : High, Low

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

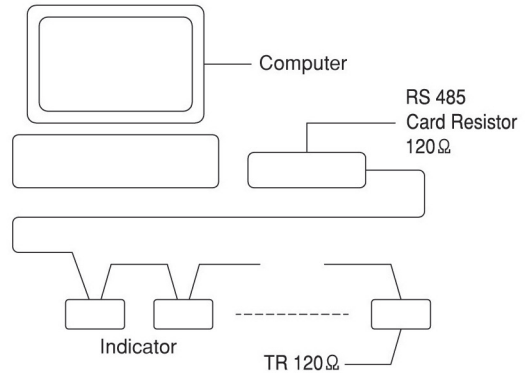
Remember the highest input value and display the highest value when pressing the key.

Peak mode 1 Low peak mode

Remember the lowest input value and display the lowest value when pressing the key.

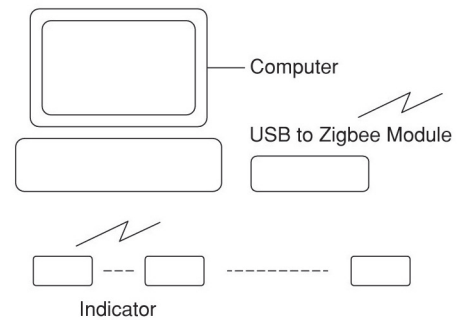
▶ Communication interface

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



▶ RF Wireless Communication Module(Optional)

- IEEE 802.15.4
- USB to Wifi Module
- SPEED : 38400 bps
- ID : 00~99
- Length : 0~30M

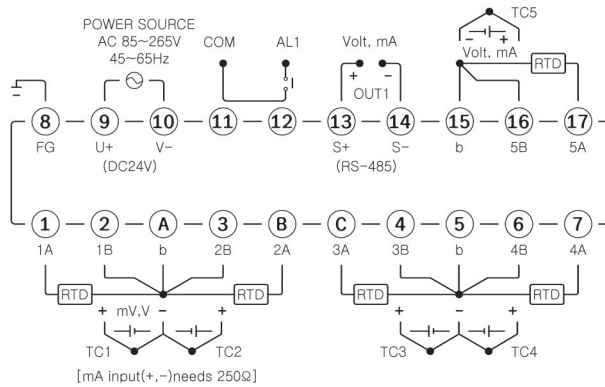


ORDERING CODE

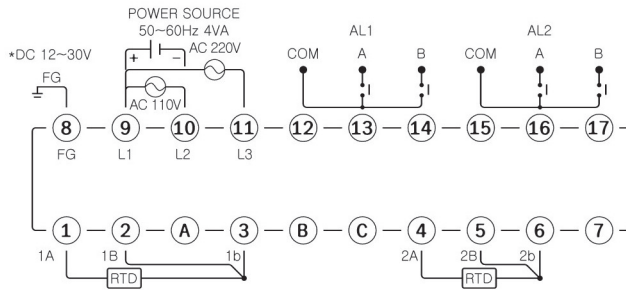
IC 5			0	Description
Input	0			5 Channel Input
	1			2 Channel RTD
Type		0		Indicator
		1		Indicator with Alarm
		2		DC 4.00~20.00mA Output
		3		Indicator with RS-485
		4		Etc
Power			0	AC 85~265V (45~65Hz)
			1	DC 24V

TERMINAL DIAGRAM

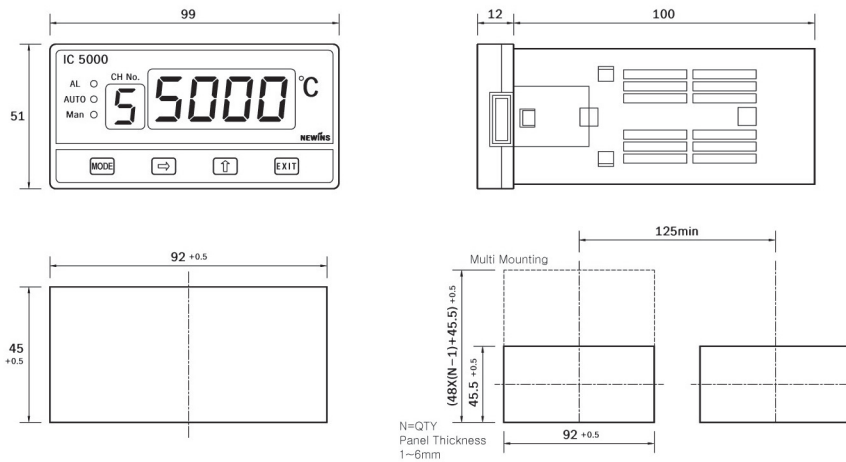
※ IC 5000



※ IC 5100 (RTD Only)



DIMENSION & PANEL CUT



A
B
C
D
E
F
G
H
I
J