

FEATURES

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



SPECIFICATIONS

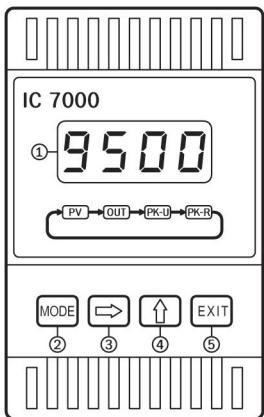
- ▷ Measuring and display cycle : 200ms(mV, Volt, mA type)
400ms(TC, RTD type)
- ▷ Input resistance : Volt-400kΩ
Others type-1MΩ
- ▷ Signal source resistance : Pt 100Ω type-30Ω/line
Others type-300Ω/line
- ▷ CMRR(Common Mode Rejection Ratio) : 140dB or more
- ▷ NMRR(Normal Mode Rejection Ratio) : 60dB or more
- ▷ Moving average filter
- ▷ Built-in sensor power source : DC 24V 30mA ±0.5%
- ▷ Accuracy : ±0.2% FS
- ▷ Isolation current output(Option)
 - Current : DC 4.00~20.00mA
 - Maximum load resistance : 600Ω
 - Isolation resistance(Input-Output, Two-output) : 100MΩ or more (DC 500V)
- ▷ Isolation voltage output(Option)
 - Voltage : DC 0~10V
 - Minimum load resistance : 1kΩ or more
 - Isolation resistance(Input-Output, Two-output) : 100MΩ or more (DC 500V)

- ▷ Alarm(Option)
 - 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(Option)
 - Power consumption : Max 6VA
 - Isolation resistance : 100MΩ , DC 500V
(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 : Approx 3.0kg(6inch)

대형 지시계

LARGE SIZE DIGITAL INDICATOR

PARTS NAME



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

INPUT TYPE

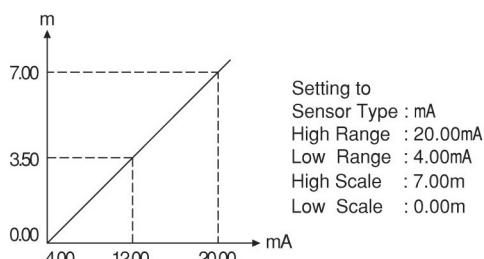
	Sensor Type	Range	Scale	Symbol
TC	R(PR 13%)	0~1750°C	-	EE-r
	K(CA)	-200~1350°C	-	EE-B
	E(CRC)	-199.9~700.0°C	-	EE-E
	J(IC)	-199.9~800.0°C	-	EE-J
	T(CC)	-199.9~400.0°C	-	EE-t
Volt	mV	-500.0~500.0mV	-1999~9999	~u
	Volt	-10.0~10.0V	-1999~9999	u
mA	mA	4.00~20.00mA	-1999~9999	~A
PT	Pt100Ω	-199.9~800.0°C	-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

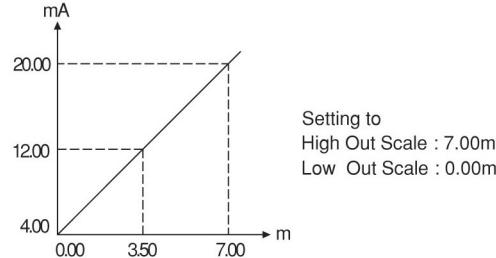


▶ Output scaling function

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)

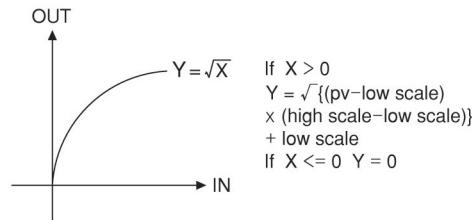
Lin

Pass the input as it is.

Used for general input type and linearity input.

root

Pass the input after $\sqrt{}$. 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

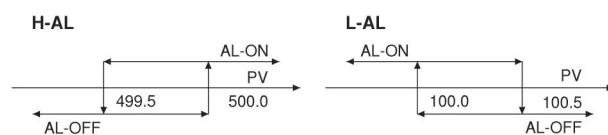
Ex) AL-1 : High alarm value 500.0,

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.



대형 지시계

LARGE SIZE DIGITAL INDICATOR

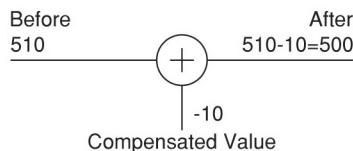
▶ Sensor compensation function

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

$$\begin{aligned} &= \text{measured value} + \text{compensated value} \\ &= 510 - 10 = 500^\circ\text{C} \end{aligned}$$



▶ 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

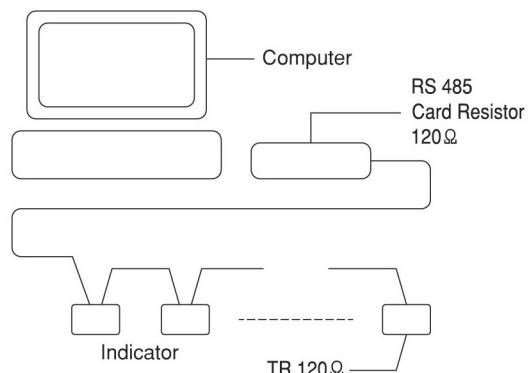
Remember the highest input value, display the highest value in ordinary times, and output the highest transmit output.

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.



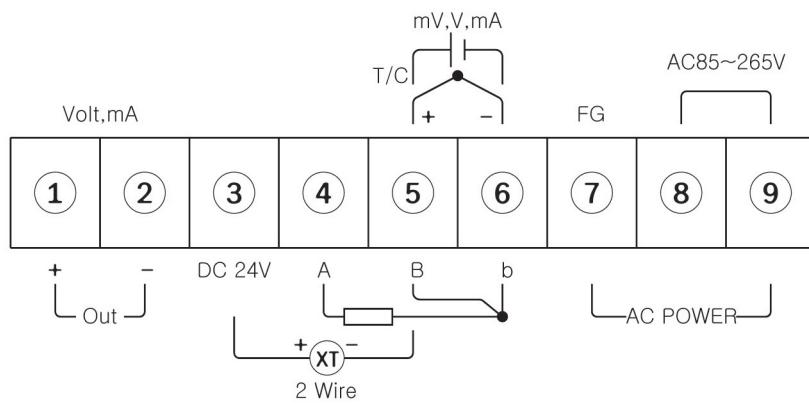
ORDERING CODE

IC 95		-		Description
Fnd size	1 2 3			6.00 inch 3.00 inch 2.30 inch
Output	0 1 2 3 4 5 6 7 8			NONE DC 4.00~20.00mA DC 4.00~20.00mA (2 Output) DC 0.00~10.00V DC 0.00~10.00V (2 Output) DC 4.00~20.00mA and Alarm 1Alarm relay RS-485 interface Etc
Power		0 1		AC 85~265V (45~65Hz) Etc

대형 지시계

LARGE SIZE DIGITAL INDICATOR

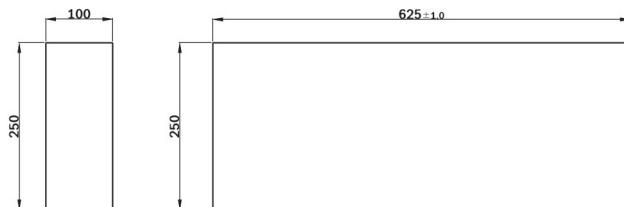
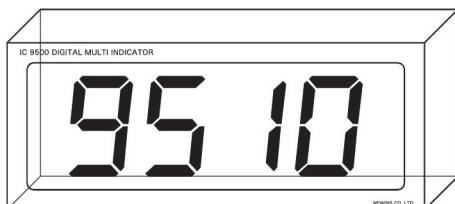
TERMINAL DIAGRAM



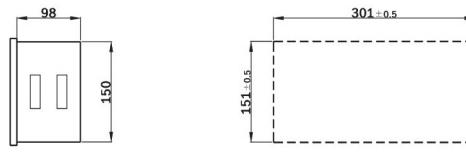
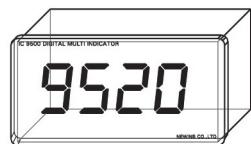
* mA Input(+ -) Needs 250 OHM 0.05% 25ppm Resistance (5, 6 Pin)

DIMENSION & PANEL CUT

1. FND (6.00 inch)



2. FND (3.00 inch)



3. FND (2.30 inch)

