FEATURES

● **Multi-range input (T/C, RTD, Volt, mA, etc).**

● **High accuracy 16bit A/D converter**

● **Peak hold function (Highest & Lowest)**

● **Burnout function**

● **2points alarm & Dead band set**

● **Isolation current output(4~20mADC) & Output scaling**

● **Sensor power source DC24V in STD specification.**

● **RS-485 Communication interface.**

● **Slim size (30.5X80X102)**

● **Free voltage (AC 85~265V, 45~65Hz)**

CE

SPECIFICATIONS

• **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±0.5%

• **Accuracy** : ± 0.2%FS

• **Isolation current output** (2output is isolation between output)

    Current : 4~20mADC

    Maximum load resistance : 600Ω

    Isolation resistance (Input-Output): 100MΩ or more (500VDC)

• **Isolation Voltage output (Option)**

    Voltage : 0~10VDC

    Minimum load resistance : 1kΩ

    Isolation resistance : 100MΩ or more (500VDC)

• **Alarm Output (Alarm setter)**

    Contact output type : Normal open, Normal Close

    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 : Free Voltage AC85~265V 45~65HZ DC24V(Option)

    Power consumption : 10VA Max

    Isolation resistance : 100MΩ 500VDC (FG-Input, FG-Power, Power-Input, Input-Output)

• **Communication interface**

• **Etc**

    Weight : 200g

    Mounting : Din rail & wall mounted

    Dimension : 30.5(W)×80(H)×102(D)mm

INPUT TYPE

Type		Range	Scale	Simbol
TC	B(PR)	0~1800℃	–	tC-b
	R(PR)	0~1750℃	–	tC-r
	S(PR)	0~1750℃	–	tC-S
	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	-50~50mV	-1999~9999	mv
	Volt	-1.000~1.000V	-1999~9999	1v
	Volt	-10~10V	-1999~9999	10v
mA	mA	4~20mA	-1999~9999	mA
PT	Pt100Ω	-199.9~800.0℃	-	Pt
	JPt100Ω	-199.9~500.0℃	-	JPt

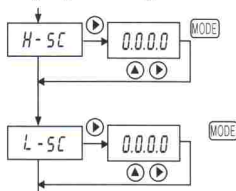※ mA input needs 250Ω 0.05% 25ppm resistance Spiral on outside

PARTS NAME

① Measured value display
② Communication lamp
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
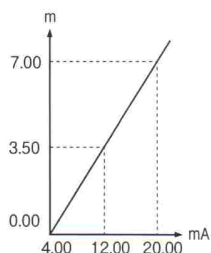⑥ "EXIT" Key : out of mode

MAJOR FUNCTIONS

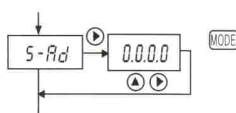### • Display scaling function (mV, Volt, mA only)

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

Ex) In case of input range 4.0~20.0mA 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
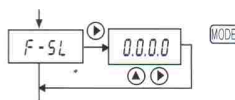
• Sensor compensation function

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
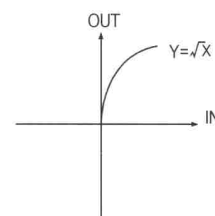= 510 - 10 = 500

• Function (mV, Volt, mA type only)

**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.

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

Lint Like level measuring, when it does not display measuring under zero it always can display zero by using limit function.
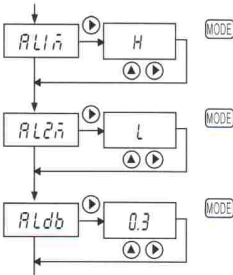
• Output scaling function

Output(mA)

20.00 mA

12.00 mA

4.00 mA

0.00   3.50   7.00   (m)
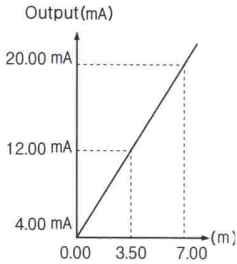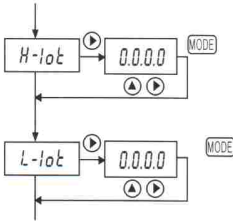
This function can change the 4~20mA value as the output scale.

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

• Alarm function

Alarm type : High, Low

The alarm consists of 2 relays, and it can output Relay contact output individually
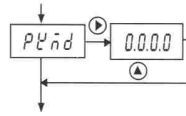
Ex) AL-1:High alarm value 500.0, AL-2:Low alarm value 100.0 alarm dead band setting 0.5

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.

L-AL

AL-ON

PV

100.0   100.5

AL-OFF

H-AL

AL-ON

PV

499.5   500.0

AL-OFF
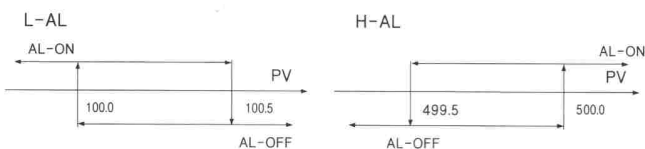
• Peak hold function

| 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.
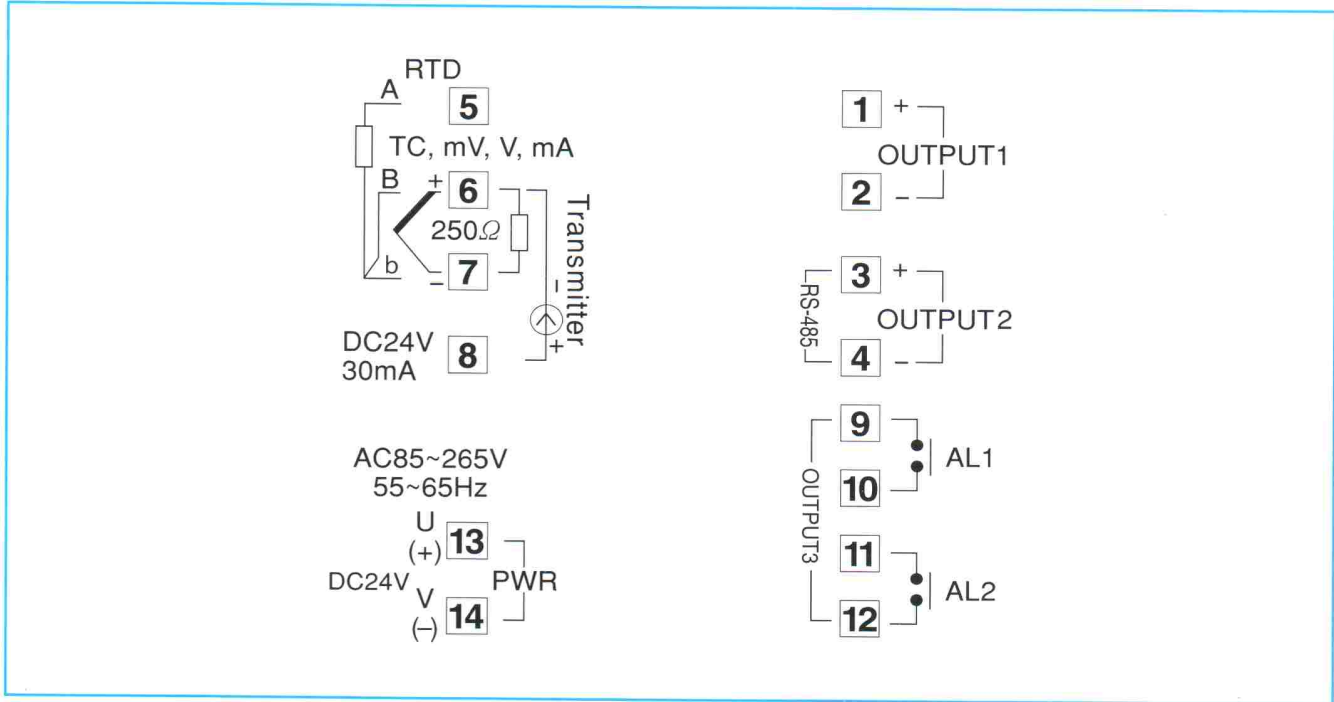
| Peak mode 3: | Low peak & Display mode |

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

ORDERING CODE

MODEL	DESCRIPTION	
NE70	Isolated Slim Converter Output	
	CODE	Output
	00	4-20mA
	01	4-20mA (2 0ut)
	02	1-5Volt
	03	1-5Volt (2 0ut)
	04	0-10Volt
	05	0-10Volt (2 0ut)
	06	4-20mA+1 Alarm
	07	4-20mA+2 Alarm
	08	1-5Volt + 1 Alarm
	09	1-5Volt + 2 Alarm
	10	4-20mA + RS-485
	11	1-5Volt + RS-485
	12	ETC
	CODE	Power Supply
	A	AC85~265V 45~65Hz
	B	DC6~32V
	C	ETC

TERMINAL DIAGRAM

RTD
A — 5

TC, mV, V, mA
B + 6
250Ω
b — 7

DC24V 8
30mA

Transmitter − +

AC85~265V
55~65Hz
U (+) 13
DC24V PWR
V (−) 14

1 +
2 − OUTPUT1

3 + RS-485
4 − OUTPUT2

9
10 AL1

11
12 AL2

OUTPUT3

DIMENSION & PANEL CUT

NE7000
Isolation
7000
● COMM
MODE
EXIT
NEWINS

30.5
80
35.4

103.0
128.5

DIN RAIL
36mm wide

8 7 6 5
4 3 2 1
26.0
2-Ø3.5
14 13
12 11 10 9

30.0
6.0
62.0
3.0
4.2
44.0
25.0
18.5

● When mounting, no extra space is needed between units

NEWINS

공업용계측기 제조 CE

지시계, 기록계, 콘버터, 조절계, 압력계, 온도계, 열전대, 발브

株式會社 뉴 인 스

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