NEWINS

NE 6000 Series

소형 슬림형 변환기

Slim & Small Type Isolated Converter(Socket)

FEATURES

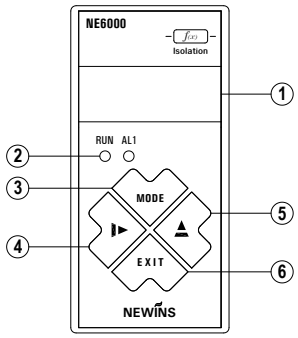
- ◉ Multi-range input T/C, RTD, mV, V, mA, POT, Etc
- ◉ Display off function (Power saving)
- ◉ High accuracy 16bit A/D converter
- ◉ Peak hold function (Highest & Lowest)
- ◉ RS-485 Communication interface
- ◉ 2points alarm & Dead band set
- ◉ Display input error
- ◉ Burnout function (Output High/Low selection)
- ◉ Sensor power source DC 24V in STD specification
- ◉ Free voltage (AC 85~265V, 45~65Hz)
- ◉ Isolation current output & Output scaling

30(W) X 62(H) X 60(D)

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(Option)**
  Voltage : DC 0~10V
  Minimum load resistance : 1kΩ
  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 : -20~60℃, 10~90%
  Storage : -20~60℃, 10~90%
- ▸ **Power supply**
  Voltage : AC 85~265V(45~65Hz)
  DC 24V(Option)
  Power consumption : Max 4VA
  Isolation resistance : 100MΩ, DC 500V
  (FG-Input, FG-Power, Power-Input, Input-Output)
- ▸ **Etc**
  Weight : 130g
  Mounting : Din rail & wall mounted
  Dimension : 30(W) x 62(H) x 60(D)mm

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

INPUT TYPE

Sensor Type		Range	Scale	Symbol
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)	-199.9 ~ 700.0℃	-	tC-E
	J(IC)	-199.9 ~ 800.0℃	-	tC-J
	T(CC)	-199.9 ~ 400.0℃	-	tC-t
Volt	mV	-50.0 ~ 50.0mV	-1999 ~ 9999	mu
	Volt	-1.000 ~ 1.000V	-1999 ~ 9999	Iu
	Volt	-10.0 ~ 10.0V	-1999 ~ 9999	10u
mA	mA	4.00 ~ 20.00mA	-1999 ~ 9999	mA
PT	Pt100Ω	-199.9 ~ 800.0℃	-	d-Pt
	JPt100Ω	-199.9 ~ 500.0℃	-	J-Pt
POT	Potention meter 1k	0 ~ 1KΩ(2kΩ)	-1999 ~ 9999	Po 1K
	Potention meter 5k	0 ~ 5KΩ(10kΩ)	-1999 ~ 9999	Po5K

* mA input needs 250Ω(±0.1% 25ppm) resistance spiral on outside

MAJOR FUNCTIONS

▸ Power-saving function

t inE

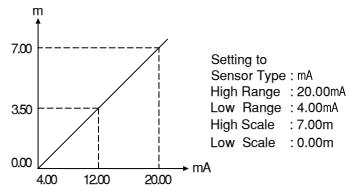
If set to ON, FND disappears after 30 minutes, and LED will be blink.

▸ Error message display function

HHou High Range over
LLou Low Range over
ErA1 RTD "A" open
Erb2 RTD "B" open, TC input open
Erb3 RTD "b" open
Ert CJC error

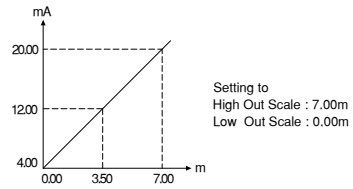
▸ Display scaling function(mV, Volt, mA only)

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



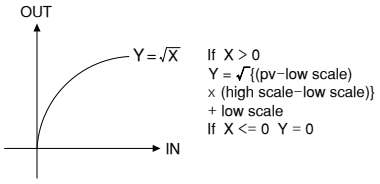
▸ Function(mV, Volt, mA type)

L in

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.



L inE

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

▸ Filter Function

Filter number can select to 10~70. Filter is average for data excluded from a max/min value during a selected number of input data received.

▸ Sensor compensation function

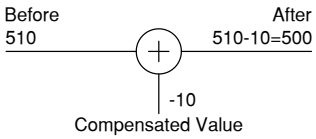
The function is useful for compensating error by long sensor line or changed zero point by aged sensor.

Ex) Before sensor adjust = 510℃

After = 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.

▸ Analog output Function

If input sensor is opened, analog output is outputed to max/min value.

High : 20.000mA , Low : 4.000mA

▸ Alarm function

Alarm type : High, Low, Middle.

The alarm consists of 2 relays, and it can output relay contact output individually

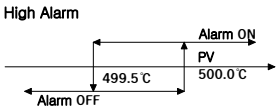
Ex) AL-1 : High alarm value 500.0,

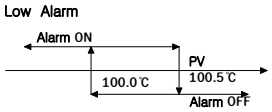
AL-2 : Low alarm value 100.0,

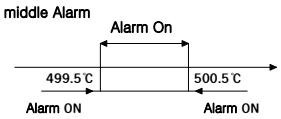
AL-3 : Middle alarm value 500.0

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.

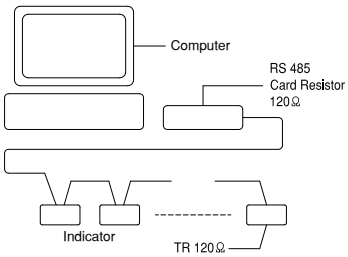






▸ Communication interface

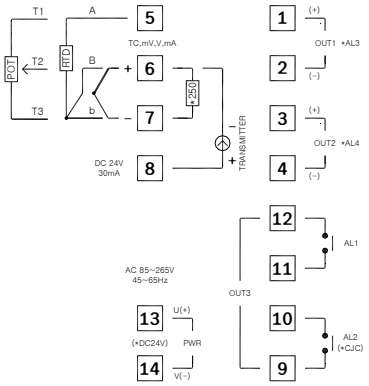
It is possible to communicate with computer and to monitor remote by using RS-485 communication interface.



ORDERING CODE

NE60		-		Description
Analog output	00			DC 4.00~20.00㎃
	01			DC 4.00~20.00㎃ (2 Out)
	02			1~5 Volt
	03			1~5 Volt(2 Out)
	04			0~10 Volt
	05			0~10 Volt (2 Out)
	06			4.00~20.00㎃ + 1 Alarm
	07			1~5 Volt + 1 Alarm
	08			4.00~20.00㎃ + RS 485(RTU)
	09			1~5 Volt + RS 485(RTU)
	10			4.00~20.00㎃ + 1 Alarm + RS485(RTU)
	11			1~5 Volt + 1 Alarm + RS 485(RTU)
	12			Etc
Power			0	AC 85~265V(45~65㎐)
			1	DC 12~32V
			2	Etc

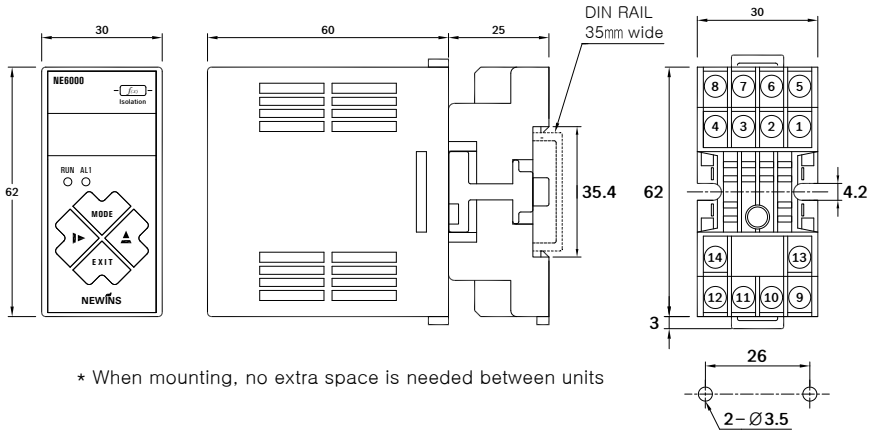
TERMINAL DIAGRAM



*NOTE
1.mA Input (+,-)Needs 250 OHM 0.05% 25ppm Resistance
2.*TC-TYPE CJC ONLY(AL2 NONE)

DIMENSION

▸ **Single Mounting** (unit:mm)



* When mounting, no extra space is needed between units

▸ **Multi Mounting** (unit:mm)

※ To avoid a shock between the home and the home oh the socket, insert the adhesion