FEATURES

◎ **Multi-Range input**(TC, RTD, Volt, mV, mA, Etc)

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

◎ **Selectable moving average filter**

◎ **Built-in multiple function**

◎ **Isolation current output** (2-wire 4.00~20.00mA) **& output scaling**

◎ **4 Digit FND for parameter alteration and PV output on the spot**

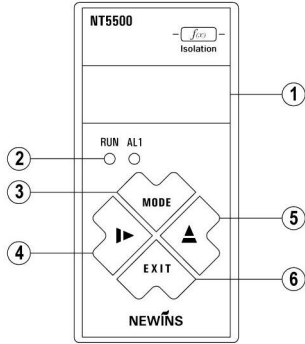30(W) X 62(H) X 60(D)

SPECIFICATIONS

> **Measuring and displaying interval** :
  200ms(mV, Volt, mA type)
  400ms(TC, RTD type)

> **Input resistance** : Volt type 400kΩ, Other type 1MΩ

> **Signal source resistance** :
  PT100Ω..30Ω/Line, Other type 300Ω/Line

> **CMRR(Common Mode Rejection Ratio)** : 140dB or more

> **NMRR(Normal Mode Rejection Ratio)** : 60dB or more

> **Moving average filter** : Selectable(None 4, 8, 16)

> **Accuracy** : ±0.1% FS

> **Power** : DC 9~35V

> **Output** : 2-wire DC 4.00~20.00mA
  load limit(Vsp9V)/0.022=RΩ

> **Isolation resistance(Input-Output)** : 100MΩ or more
  (DC 500V)

▷ **Operation condition**
  Operating Temp/Humidity : -10~60℃, 10~90%
  Storage Temp/Humidity : -20~70℃, 5~95%

> **Case meterial** : ABS

> **Etc**
  Weight : 180g
  Mounting : Rail Mount

INPUT TYPE

Sensor Type		Range	Scale	Symbol	Etc
TC	B(PR 30%)	0~1800℃	-	TC-B	STD
	R(PR 13%)	0~1750℃	-	TC-R	
	S(PR 10%)	0~1750℃	-	TC-S	
	K(CA)	-200~1350℃	-	TC-K	
	E(CRC)	-200.0~700.0℃	-	TC-E	
	J(IC)	-199.9~800.0℃	-	TC-J	
	T(CC)	-199.9~400.0℃	-	TC-T	
	N	0~1300.0℃	-	TC-N	
mV	mV	-100.0~100.0mV	-1999~9999	MV	
PT	PT100Ω	-200~630℃	-	D-PT1	
		-199.9~630.0℃		D-PT2	
	JPT100Ω	-199.9~800.0℃	-	J-PT	
Volt	Volt	-10.0~10.0V	-1999~9999	V	OPTION
mA	mA	4.00~20.00mA	-1999~9999	MA	

※ mA input needs 250Ω(±0.1% 25PPM) resistance spiral on outside

A B C D E F G H I J

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 :
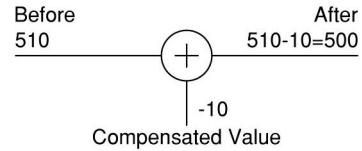Change the data value

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 4.00~20.00mA and Level 0.00~7.00m

Setting to
Sensor Type : mA
High Range : 20.00mA
Low Range : 4.00mA
High Scale : 7.00m
Low Scale : 0.00m

▷ **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

Setting to
High Out Scale : 7.00m
Low Out Scale : 0.00m

▷ **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℃

Before
510

After
510-10=500

-10
Compensated Value

▷ **Function(mV, Volt, mA type)**

$L\ in$

Pass the input as it is.
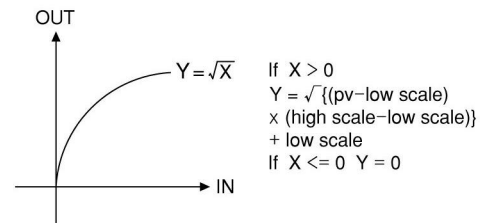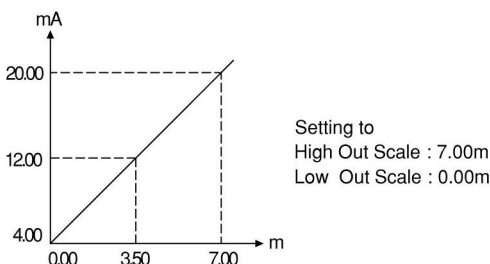
Used for general input type and linearity input.

rot

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

OUT

$Y = \sqrt{X}$

If X > 0
$Y = \sqrt{\{(pv-low\ scale)}$
$\times (high\ scale-low\ scale)\}$
$+ low\ scale$
If X <= 0 Y = 0

IN

▷ **Filter function**

▷ Filter

This function is moving average filter.

0001 ~ 0099

It displays in recent input No 1~99 sample average.

Setting filter function delays response.

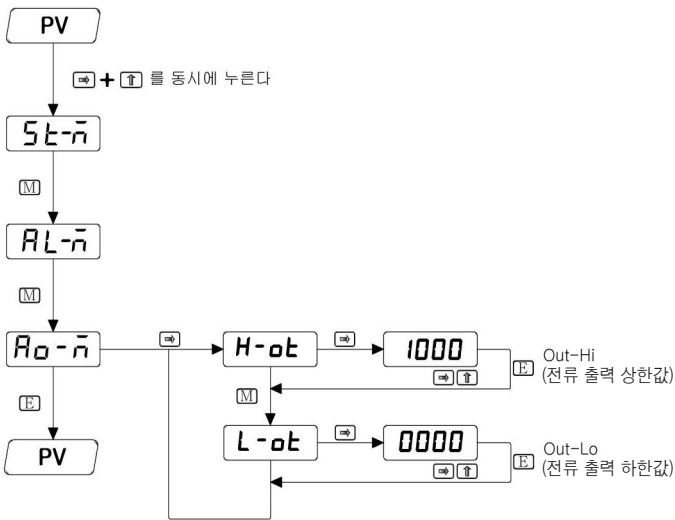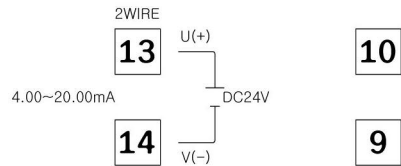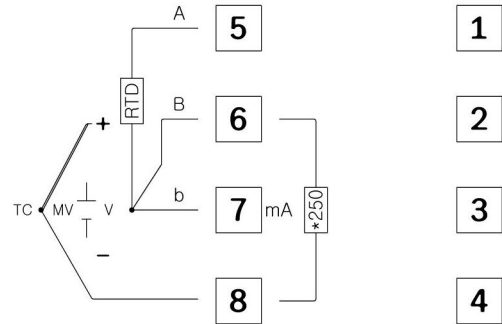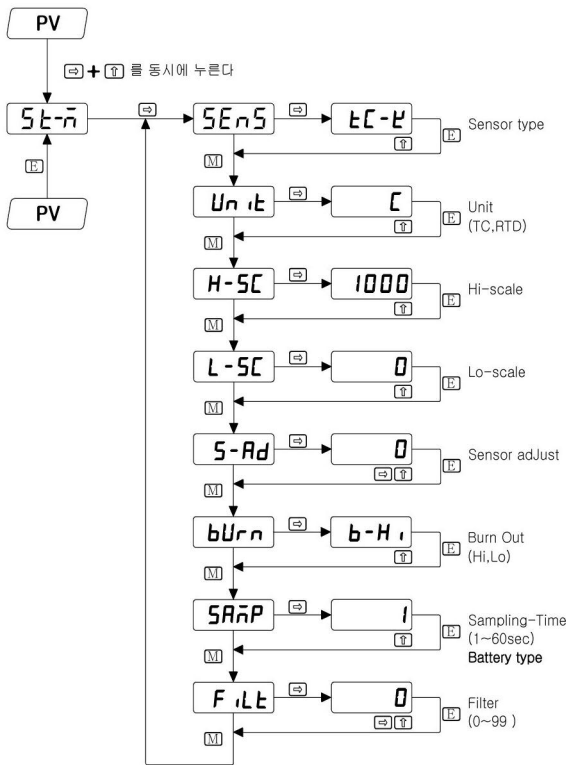Do not use filter when high speed response is needed.

When output and display value are changed by irregular input, it is possible to get regular input and display value by using filter function.

SET UP MODE

TERMINAL DIAGRAM

DIMENSION & PANEL CUT

▸ 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