

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 LCD for parameter alteration and PV output on the spot



SPECIFICATIONS

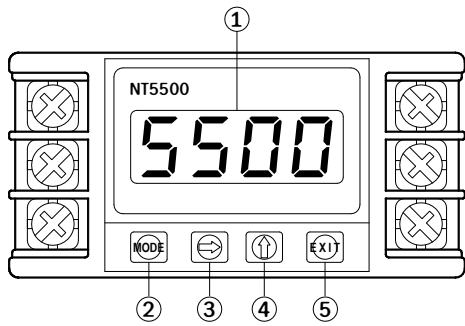
- ▶ **Measuring and displaying interval** : 200ms(mV, Volt, mA type)
400ms(TC, RTD type)
- ▶ **Input resistance** : Volt type 400kΩ, Other type 1MΩ
- ▶ **Signal source resistance** : PT100Ω..30Ω/Line, Other type 300Ω/Line
- ▶ **CMRR(Common Mode Rejection Ratio)** : 140dB or more
- ▶ **NMRR(Normal Mode 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 material** : ABS
- ▶ **Etc**
Weight : 180g
Mounting : Rail Mount

INPUT TYPE

	Sensor Type	Range	Scale	Symbol
TC	B(PR 30%)	0~1800℃	-	ℓ[-b
	R(PR 13%)	0~1750℃	-	ℓ[-r
	S(PR 10%)	0~1750℃	-	ℓ[-S
	K(CA)	-200~1350℃	-	ℓ[-ℓ
	E(CRC)	-200.0~700.0℃	-	ℓ[-E
	J(IC)	-199.9~800.0℃	-	ℓ[-J
	T(CC)	-199.9~400.0℃	-	ℓ[-t
Volt	mV	-100.0~100.0mV	-1999~9999	μ
	Volt	-10.0~10.0V	-1999~9999	v
mA	mA	4.00~20.00mA	-1999~9999	mA
PT	Pt100Ω	-199.9~800.0℃	-	d-Pt
	JPt100Ω	-199.9~630.0℃	-	J-Pt

* mA input needs 20Ω 0.05% 25ppm resistance spiral on outside

PARTS NAME



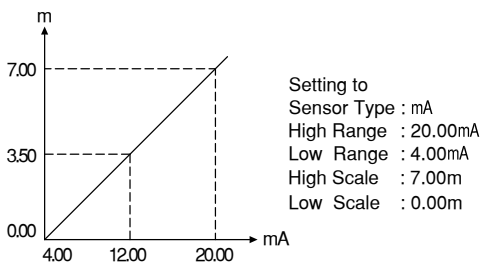
- ① Measured value display
- ② **MODE** Key : Storage the set data and change the operation menu
- ③ **ENTER** Key : Enter into the data setting mode and modify the changed location
- ④ **UP** Key : Change the data value
- ⑤ **EXIT** Key : Out of mode

MAJOR FUNCTIONS

► **Display scaling function(mV, Volt, mA only)**

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

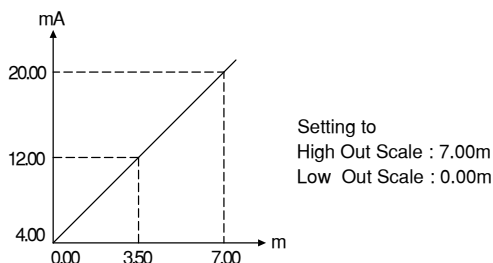
Ex) In case of input range 4.00~20.00mA and Level 0.00~7.00m



► **Output scaling function**

This function can change the 4.00~20.00mA value as the output scale.

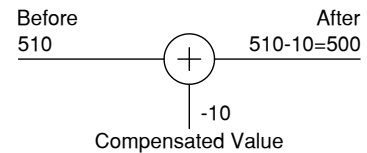
Ex) In case of display value 0.00~7.00m, Output 4.00~20.00mA



► **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



► **Function(mV, Volt, mA type)**

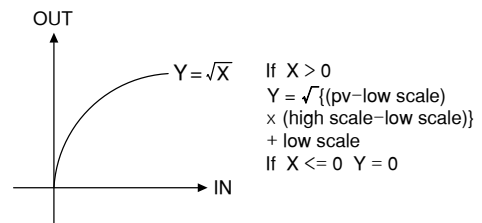
L in

Pass the input as it is.

Used for general input type and linearity input.

S-r t

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



L in t

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

► **Filter function**

Filter is moving average filter and it has 4 kinds of function.

non E

It displays the change of input without filter.

Av 4, 8, 16

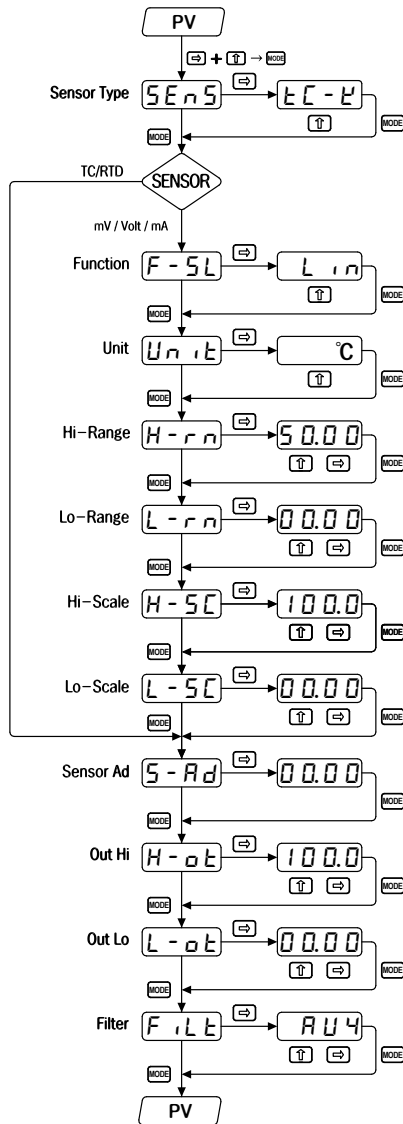
It displays in recent input No 4,8,16 sample average.

Setting filter function delays reponse.

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.

OPERATION MODE



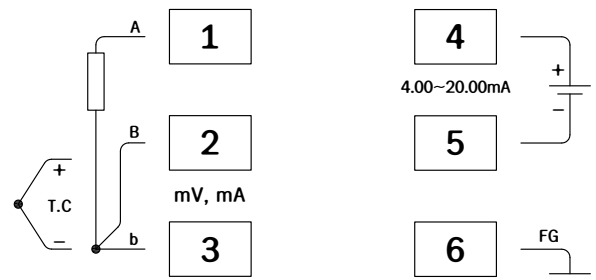
ORDERING CODE

Model	Indicator	Description	Etc
NT 55XX	0	None	Vertical
	1	With LCD	Horizontal

* Temperature sensor is separate way subject of discussion

TERMINAL DIAGRAM

ISOLATED 2-WIRE TRANSMITTER



* Change the bottom S/W when from T/C, mV and V to RTD, to T/C RTD

* mA input needs 20Ω 0.05% 25ppm resistance spiral on outside.

DIMENSION & PANEL CUT

