

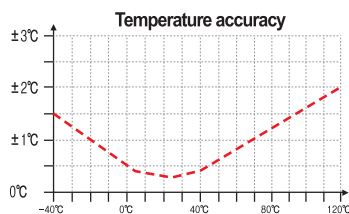
FEATURES

- Relative humidity and temperature sensors
- Excellent long-term stability
- High accuracy (1.8%RH)
- Selectable moving average filter
- Channel isolation current output (2wire 4.00~20.00mA) & Output scaling
- 4 Digit LCD for Parameter alteration and PV output on the spot
- Temperature and humidity according to set up cycle alternately Display (1~10sec)
- sensor compensation (Hamidity and Temp)

SPECIFICATIONS

● Temperature

- **Element** : Micro-machining CMOS
- **Accuracy** : at 25°C ± 0.3°C

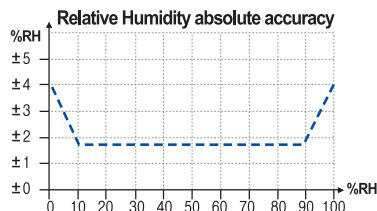


- **Temperature detection range** :
CMOSens[K] : -40.0~120.0°C
Pt100Ω : -200~600°C

- **Response time** : 1/e(63%)

● Humidity

- **Element** : Micro-machining CMOS
- **Accuracy** : ± 1.8%RH at 25°C in the range of 10 to 90%RH



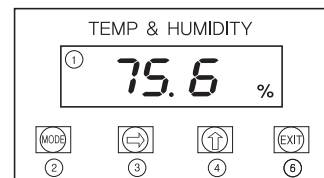
- **Humidity detection range** : 0.0~100.0%RH
- **Response time** : 1/e(63%) at 25°C, 1m/s air
- **Long term Stability** : <0.5%RH/yr
- **Type of fluid** : air and neutral gases



● Etc

- **Moving average filter** : Selectable(None,04,08,16, 32)
- **Power** : DC 9~35Volt
- **Output** : Pt100Ω, DC4.00~20.00mA
load limit (Vsp-9V)/0.022=RΩ
- **Operation condition** : Operating Temp/Humidity
Room(-10~60°C, 10~90%)
Duct(-10~60°C, 10~100%)
Storage Temp/Humidity
-20~70°C, 5~95%
- **Case material** : Room(ABS + SUS316)
Duct(Al+SUS316)

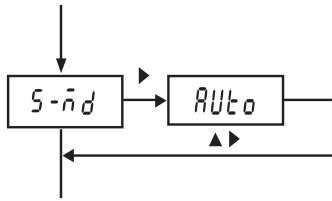
PARTS NAME



- ① **LCD Window** : Measured value display and Unit Message display
- ② **MODE Key** : Storage the set date and change the operation menu
- ③ **SHIFT 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 FUNCTION

- Automatic, manual alteration function



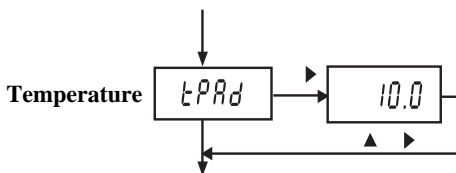
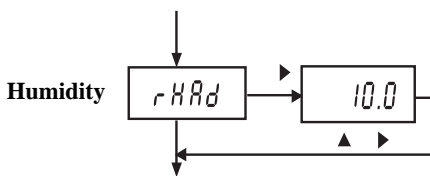
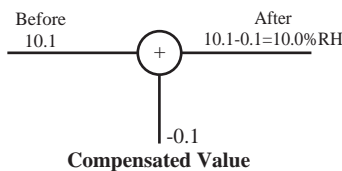
- Customer is mode (Auto, temperature, humidity) selection that wish to do display
- **Auto (Auto)** : Temperature and humidity according to set up cycle alternately Display (1~10Sec)
- **Temperature (TEMP)** : Temperature display
- **Humidity (RH)** : Humidity display

• **Sensor compensation function :**

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

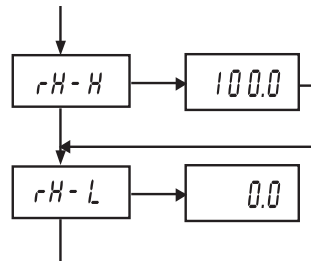
Ex) Before sensor adjust=10.1%RH

After sensor adjust=measured value+compensated value
 =10.1-0.1=10.0%RH



Correct constant error of temperature & humidity

• **Output scaling function**



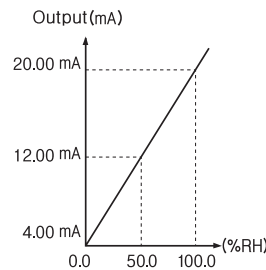
(Humidity 0.0~100.0%RH)

This function can change the 4.00~20.00mA value as the output scale. (rH-H)

Ex) In case of display value 0.0~100.0%RH, Output 4~20mA

setting to : High out (rH-H) :100.0

Low out (rH-L) :0.0

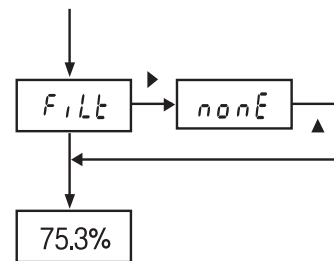


Setting to

High out (rH-H) : 100.0

Low out (rH-L) : 0.0

• **Filter function**



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

nonE it displays the change of input with out filter.

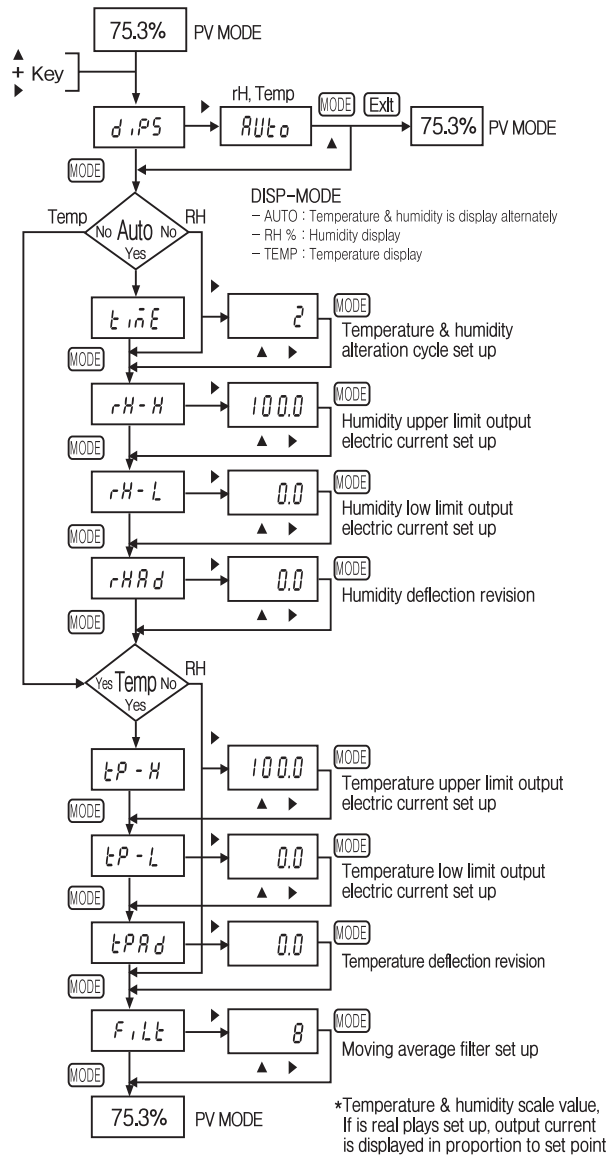
AV4,8,16,32 it displays in recent input No 4,8,16,32 sample average.

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

Buy instrument and user is mode that play set up according to use purpose.
Data set up method refers each part button name.

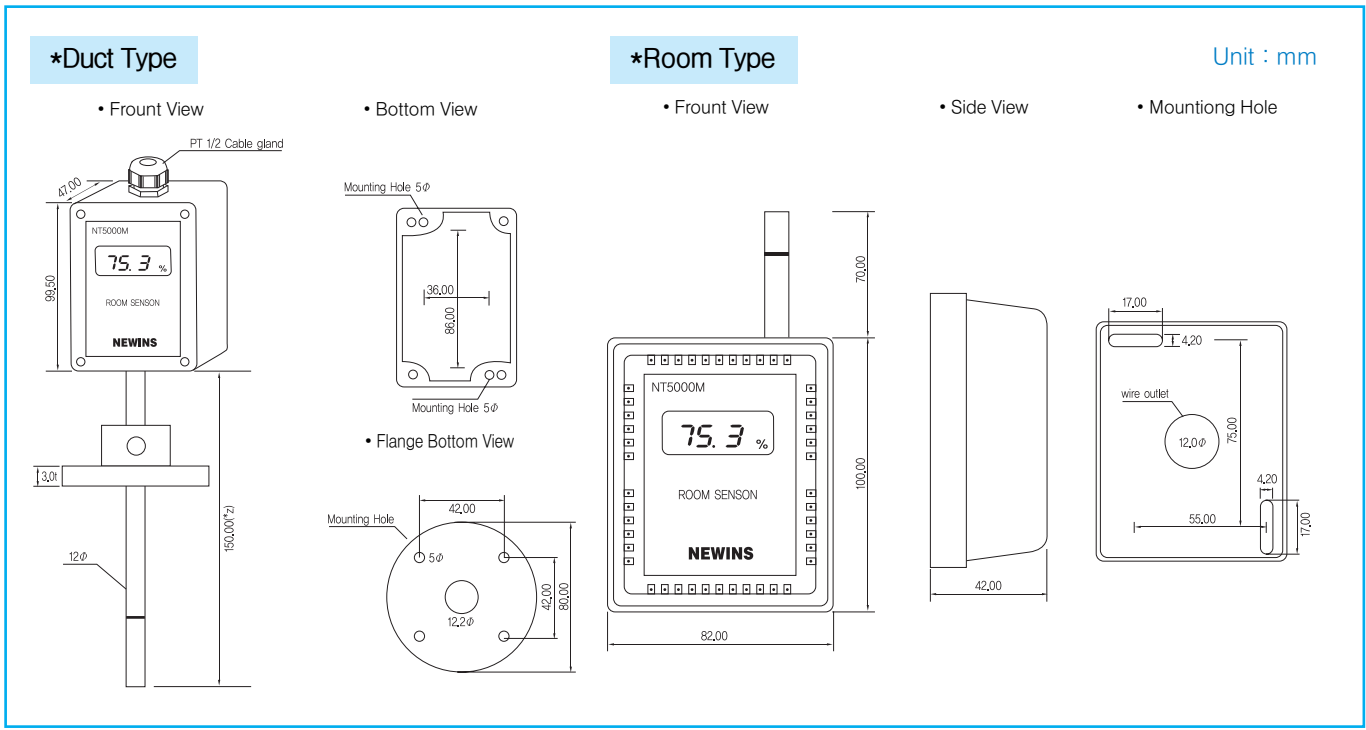


ORDERING CODE

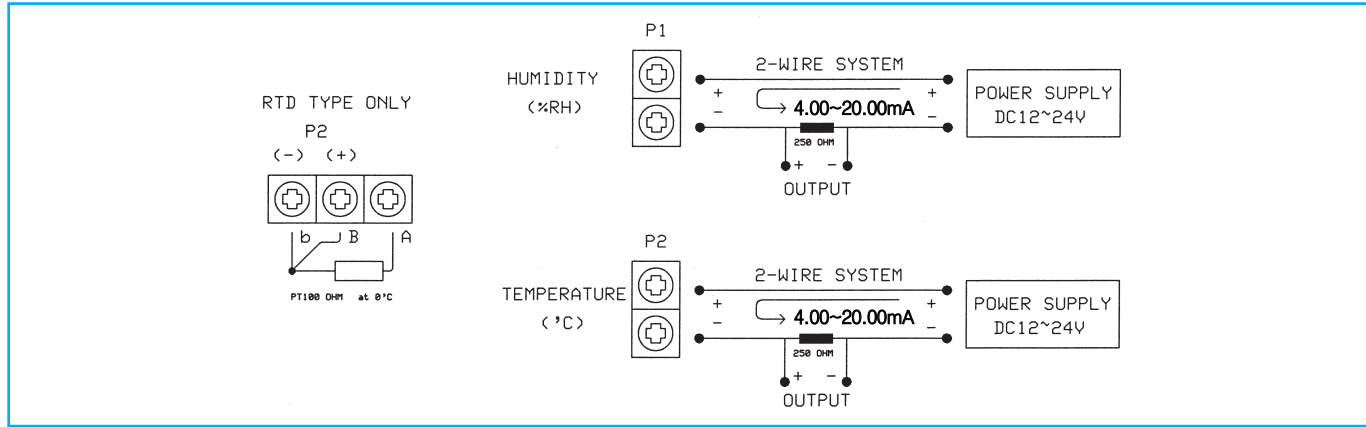
Type	Output	Sensor length	Others	Description
NT5100M				Duct type
NT5200M				Room type
	1			RTD (Temperature only)
	2			4~20mA (Humidity only)
	3			RTD (Temperature), 4~20mA (Humidity)
	4			4~20mA (Temperature & Humidity)
		0		none
		1(*)		Sensor length 150mm standard
		2(*)		others sensor length L=()mm
			0	without slide flange
			1	with slide flange

(*) Duct type only.

DIMENSIONS



TERMINAL DIAGRAM



For further information, a quotation or a demonstration please contact to

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