FEATURES

- Multi-range input (T/C, RTD, Volt, mA, mV, etc).
- High accuracy 16bit A/D converter
- Peak hold function (Highest & Lowest)
- RS-485 communication interface
- 2points alarm & Dead band set
- Burnout function
- Isolation current output(4~20mADC) & Output scaling
- Sensor power source DC24V in STD specifcation.

SPECIFICATIONS

- **Measuring and display cycle** : 200ms(mV, Volt, mA type)
  400ms(TC, RTD type)
- **Input resistance** :Volt - 400㏁
  Others type-1㏁
- **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 (Option)**
  - Current : 4~20mADC
  - Maximum load resistance :600Ω
  - Isolation resistance (Input-Output): 100㏁ or more (500VDC)
    (Input-Output, Two output)
- **Isolation Voltage output (Option)**
  - Voltage : 0~10VDC
  - Minimum load resistance : 1㏀ or more
  - Isolation resistance : 100㏁ or more (500VDC)
    (Input-Output, Two output)
- **Alarm (Option)**
  - Contact output type : Normal open
    (Normal Close - Order made)
  - 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 : AC110 or 220V (50/60Hz)by order
    DC24V(Option)
  - Power consumption : 6VA Max
  - Isolation resistance : 100㏁ 500VDC
    (FG-Input, FG-Power,
    Power-Input, Input-Output)
- **Communication inetface (Option)**
  - Type : RS-485
  - Speed : 4800, 9600, 19200bps
  - ID(address)setting : 0~15
- **Etc**
  - Weight : Approx 3.0kg (6inch)

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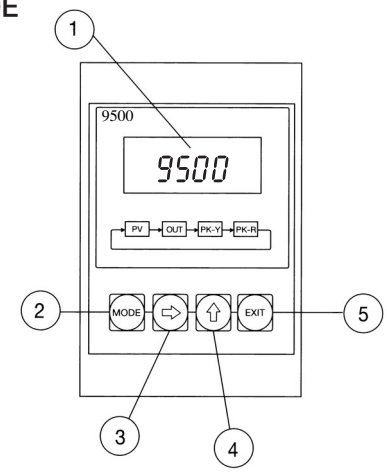
INPUT TYPE

Type		Range	Scale	Simbol
TC	R(PR13%)	0~1750	-	tC-r
	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	-500~500mV	-1999~9999	mV
	Volt	-10~10V	-1999~9999	V
mA	mA	4~20mA	-1999~9999	mA
PT	Pt100Ω	-200.0~800.0℃	-	Pt
	JPT100Ω	-200.0~500.0℃	-	JPt

PARTS NAME

※ INSIDE



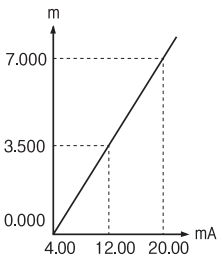
① Measured value display
② "MODE" key : storage the set data and change the operation menu
③ "⇨"Key : enter into the data setting mode and modify the changed location
④ "⇧" Key: change the data value
⑤ "EXIT" Key : out of mode

MAJOR FUNCTION

• 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



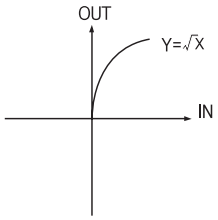
Setting to
Sensor type : mA
High Range : 20.00mA
Low Range : 4.00mA
High Scale : 7.000
Low Scale : 0.000

• Function (mV, Volt, mA type)

Lin 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.

if x > 0
Y=√{(pv-low scale)
X(high scale-low scale)}
+low scale
if x < =0 Y=0



• 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

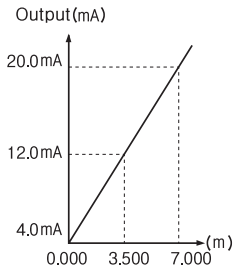
LinE Like level measuring, when it does not display measuring under zero, it always can display zero by using limit function.

• Output scaling function

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

High out scale : 7.000 Low out scale : 0.000



• Alarm function

Alarm type : High, Low

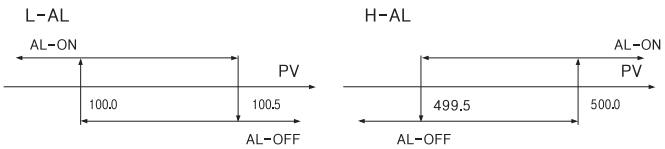
The alarm consists of 4 relays, and it can output Relay contact output individually

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.



• Peak hold funtion

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

Large size Digital Indicators

IC95 [A] [B] – [C]

[A] FND size

1. 6.00”
2. 3.00”
3. 2.30”

[B] OUTPUT

0. Isolation DC4~20mA current1 output
1. Isolation DC4~20mA current2 output
2. Isolation DC0~10 Volt 1 output
3. Isolation DC0~10 Volt 2 output
4. Isolation DC0~10 Volt 2 output
5. Isolation DC4~20mA current1 output
   Alarm 1 output
6. 2Alarm relay output
7. RS-485 Inerface

[C] POWER

0. 110/220V
1. Ect

• Communication interface

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

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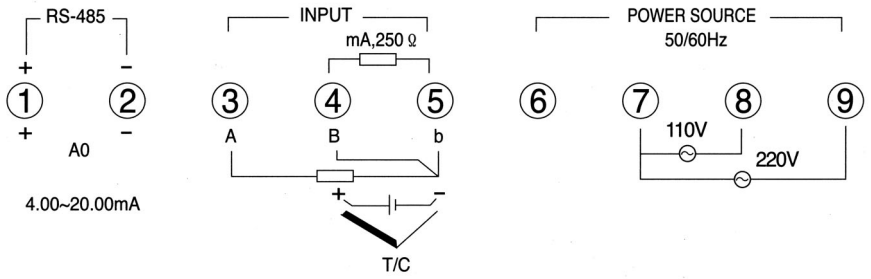
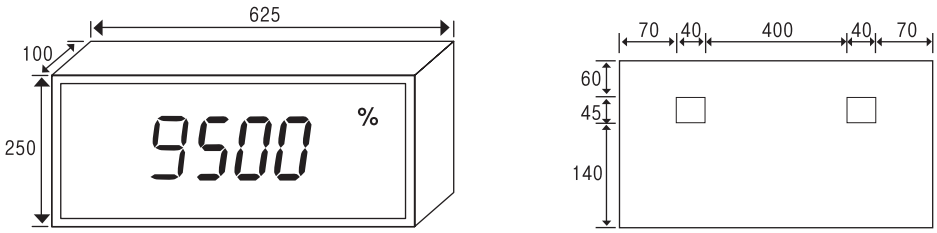
TERMINAL DIAGRAM



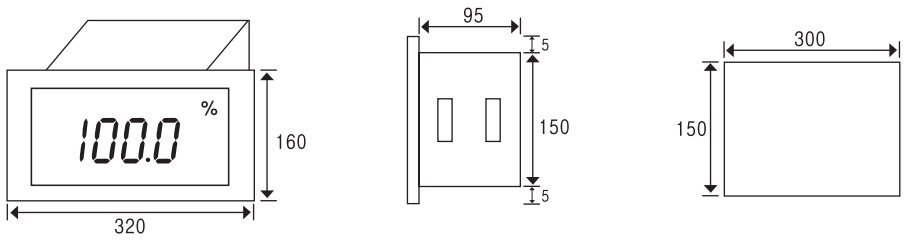
DIMENSION & PANEL CUT

Unit : mm

1. FND (6.00 inch)



2. FND (3.00 inch)



3. FND (2.30 inch)