

FEATURES

- Multi-range input (Volt, mA)
- High accuracy 16bit A/D converter
- The ratio of input to output setting 0.5~1.5 and output according to input
- Isolation current output (DC 4.00~20.00mA) & Output scaling



SPECIFICATIONS

- ▶ Measuring and display cycle : 100ms(mV, Volt, mA type)
200ms(TC, RTD type)
- ▶ Input resistance : Volt-400k Ω
Others type-1M Ω
- ▶ Signal source resistance : Pt 100 Ω type-30 Ω /line
Others type-300 Ω /line
- ▶ CMRR(Common Mode Rejection Ratio) : 140dB or more
- ▶ NMRR(Normal Mode Rejection Ratio) : 60dB or more
- ▶ Moving average filter
- ▶ Sensor power source : DC 24V 30mA \pm 0.5%
- ▶ Accuracy : \pm 0.2% FS
- ▶ Isolation voltage output(Option)
(2 output is isolation between output)
Voltage : DC 0~10V
Minimum load resistance : 1k Ω
Insolation resistance(Input-Output) : 100M Ω or more
(DC 500V)

▶ Isolation current output(Option)

- Current : DC 4.00~20.00mA
- Maximum load resistance : 600 Ω
- Isolation resistance(Input-Output) : 100M Ω or more
(DC 500V)

▶ Ambient temperature & Humidity

- Operation : -10~50 $^{\circ}$ C, 10~90%
- Storage : -20~70 $^{\circ}$ C, 5~95%

▶ Power supply

- Voltage : AC 110/220V(50~60Hz) by S/W
DC 24V(Option)
- Power consumption : Max 4VA
- Isolation resistance : 100M Ω , DC 500V
(FG-Input, FG-Power,
Power-Input, Input-Output)

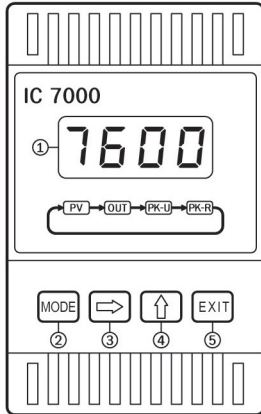
▶ Etc

- Weight : 500g
- Mounting : Din rail & wall mounted
- Dimension : 50(W) X 80(H) X 102(D)mm

비율설정 변환기

ISOLATED RATIO CONVERTER

PARTS NAME



- 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

INPUT TYPE

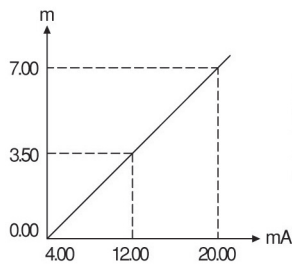
Sensor Type		Range	Scale	Symbol
Volt	mV	-50.0~50.0mV	-1999~9999	$\bar{n}u$
	Volt	-10.0~10.0V	-1999~9999	u
mA	mA	4.00~20.00mA	-1999~9999	$\bar{n}A$

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

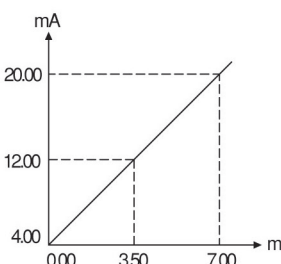


Setting to
Sensor Type : mA
High Range : 20.00mA
Low Range : 4.00mA
High Scale : 7.00m
Low Scale : 0.00m

▷ 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

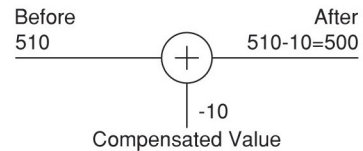
The function is useful for compensating error by long sensor line or changed zero point by aged sensor.

Ex) Before sensor adjust = 510°C

After sensor adjust

$$= \text{measured value} + \text{compensated value}$$

$$= 510 - 10 = 500^\circ\text{C}$$



▷ Function(Volt, mA type only)

L in

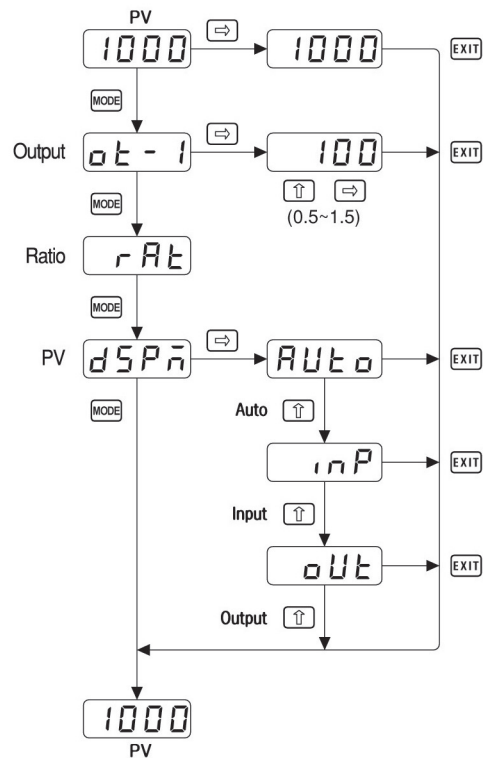
Pass the input as it is.

Used for general input type and linearity input.

L n t

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

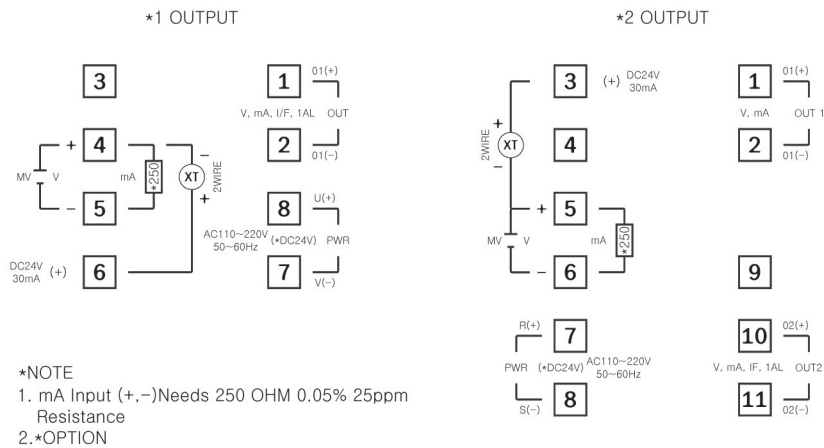
OPERATION MODE



ORDERING CODE

IC 76		Description
Analog output	0	DC 4.00~20.00mA
	1	DC 4.00~20.00mA (2 Output)
	2	DC 0.0~10.0V
	3	DC 0.0~10.0V (2 Output)
	4	Etc
Power	0	AC 110/220V by S/W
	1	DC 24V

TERMINAL DIAGRAM



DIMENSION & PANEL CUT

