선형 변환기(탱크레벨 측정용) LINEARIZER CONVERTERS WITH ALARM

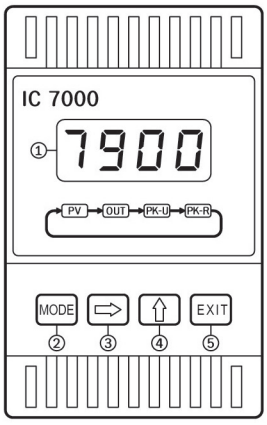
FEATURES

- Input 12 points linear table and output property curve you want
- High accuracy 16bit A/D converter
- Isolation current output (DC 4.00~20.00mA) & Output scaling
- Sensor power source DC 24V in STD specification

SPECIFICATIONS

- **Input** : mV, Volt, mA
- **Measuring and display cycle** : 200ms(mV, Volt, mA type)
- **Input resistance** : Volt-400kΩ
  Others type-1MΩ
- **Signal source resistance** : 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** : DC 24V 30mA ±0.5%
- **Accuracy** : ±0.2% FS
- **Isolation current output(Option)**
  Current : DC 4.00~20.00mA
  Maximum load resistance : 600Ω
  Isolation resistance(Input-Output) : 100MΩ or more (DC 500V)
- **Isolation voltage output(Option)**
  Voltage : DC 0~5V, DC 0~10V
  Minimum load resistance : 1kΩ or more
  Isolation resistance(Input-Output) : 100MΩ or more (DC 500V)
- **Ambient temperature & Humidity**
  Operation : -10~50℃, 10~90%
  Storage : -20~70℃, 5~95%
- **Power supply**
  Voltage : AC 110/220V(50~60Hz)
  DC 24V(Option)
  Power consumption : Max 4VA
  Isolation resistance : 100MΩ, 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

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

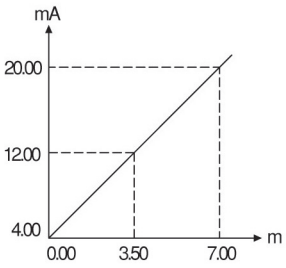
Sensor Type		Range	Scale	Symbol
Volt	mV	-50.0~50.0mV	-1999~9999	mV
	Volt	-10.0~10.0V	-1999~9999	V
mA	mA	4.00~20.00mA	-1999~9999	mA

MAJOR FUNCTIONS

▹ **Output scaling function**

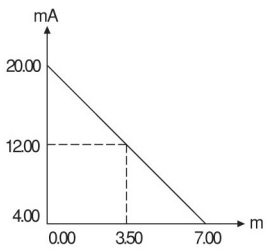
This function can change the 4.00~20.00mA value as the output scale.

Ex A) 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

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



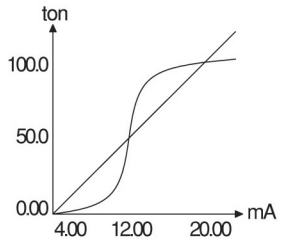
Setting to
High Out Scale : 7.00m
Low Out Scale : 0.00m

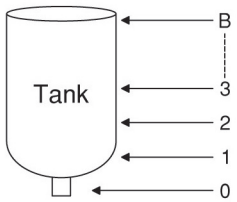
▹ **Linearizer function(mV, Volt, mA only)**

This function is when inputing by inputed linear table, it reads up-and-down two points mostly to current input from table and makes them more straight.

Ex) In case of input range 4.00~20.00mA and spherical tank to measure volume and weight of contents, assume that weight is 10.00ton.

Step	Range	Scale
0	0.00	-25.0
1	2.00	-12.5
2	4.00	0.00
3	6.00	12.5
4	8.00	25.0
5	10.00	37.5
6	12.00	50.0
7	14.00	62.5
8	16.00	75.0
9	18.00	87.5
A	20.00	100.0
B	22.00	112.5



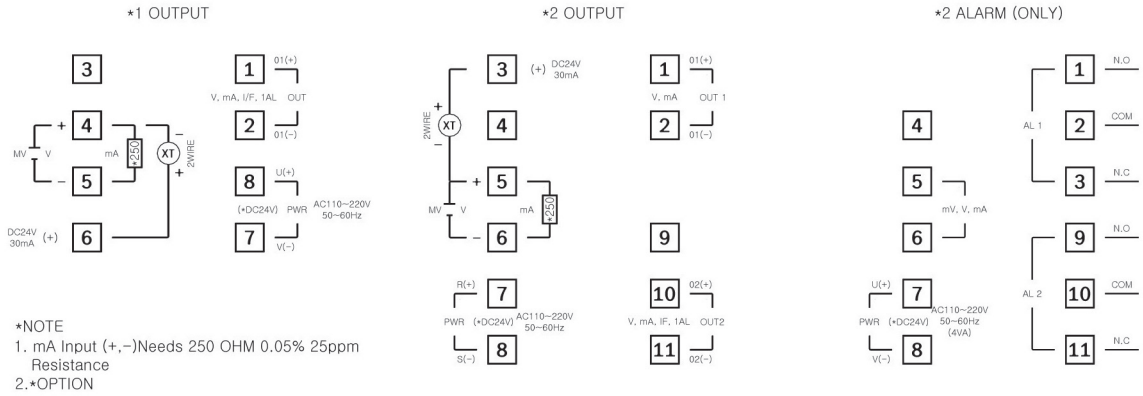


* When setting range, it needs high range according to large number and has to input all tables.
Or it does not operate nomally.

ORDERING CODE

IC 79			-		Description
Input	1 2 3				mV, Volt mA (250Ω) Etc
Analog output		0 1 2			DC 4.00~20.00mA DC 4.00~20.00mA (2 Output) Etc
Power				0 1	AC 110/220V by S/W DC 24V

TERMINAL DIAGRAM



DIMENSION & PANEL CUT