

FEATURES

- Synchronous transmitter or receive signal input
- Response is prompt
- 360 angles zero & span set is available
- DC 4.00~20.00mA output scaling is possible
- Display and output because use input filter



SPECIFICATIONS

- ▶ **Input voltage** : AC 0~90V Synchro transmitter second
- ▶ **Input frequency** : 50~60Hz
- ▶ **Measuring and display cycle** : 200ms(mV, Volt, mA type)
- ▶ **CMRR(Common Mode Rejection Ratio)** : 140dB or more
- ▶ **NMRR(Normal Mode Rejection Ratio)** : 60dB or more
- ▶ **Moving average filter** : Average 4
- ▶ **Accuracy** : $\pm 0.2\%$ FS
- ▶ **Isolation current output(Optional)**
 - Current : DC 4.00~20.00mA
 - Maximum load resistance : 600 Ω
 - Isolation resistance(Input-Output) : 100M Ω or more (DC 500V)
- ▶ **Isolation voltage output(Optional)**
 - (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)

▶ **Ambient temperature & Humidity**

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

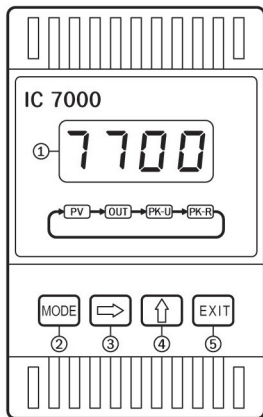
▶ **Power supply**

- Voltage : AC 110/220V(50~60Hz) by S/W
- 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

PARTS NAME



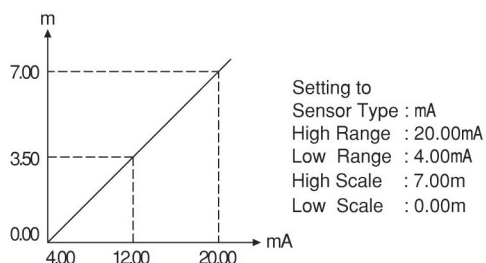
- ① Measured value display
- ② **MODE** Key :
Storage the set data and change the operation menu
- ③ **⇒** Key :
Enter into the data setting mode and modify the changed location
- ④ **↑** Key :
Change the data value
- ⑤ **EXIT** Key : Out of mode

MAJOR FUNCTIONS

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

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

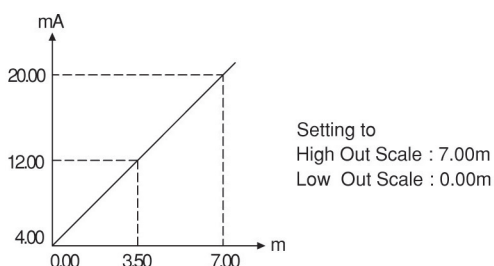
Ex) In case of input range 4.00~20.00mA and Level 0.00~7.00m



► 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

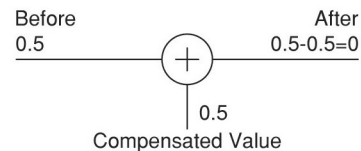
The function is useful for compensating error by long sensor line or changed zero point by aged sensor.

Ex) Before sensor adjust = 0.5m

After sensor adjust

= measured value + compensated value

= 0.5 - 0.5 = 0



► Function(Volt, mA type only)

L i n

Pass the input as it is.

Used for general input type and linearity input.

L i m i t

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

TRIM FUNCTION

Trim function should establishes instrument, and achieve certainly after synchronous transmitter connection.

If do not it. Display value can be unequal with synchro.

After all reset, I do trim certainly can operate as summit.

Zero

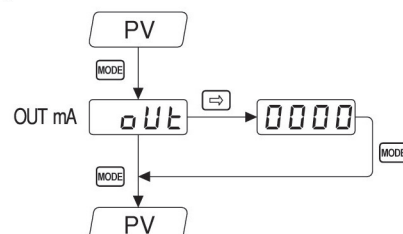
Synchro transmitter is located to zero point and in measuring instrument zero point function that remember zero point doing trim be.

Span

Synchro transmitter is located to span point and in measuring instrument span point function that remember span point doing trim be. Positions of zero and span point is possible in 360 angles all, and measurement is measured to span point increasing to continuous wave direction beginning in zero point.

OPERATION MODE

► Can confirm PV value and mA value during driving ordinarily.



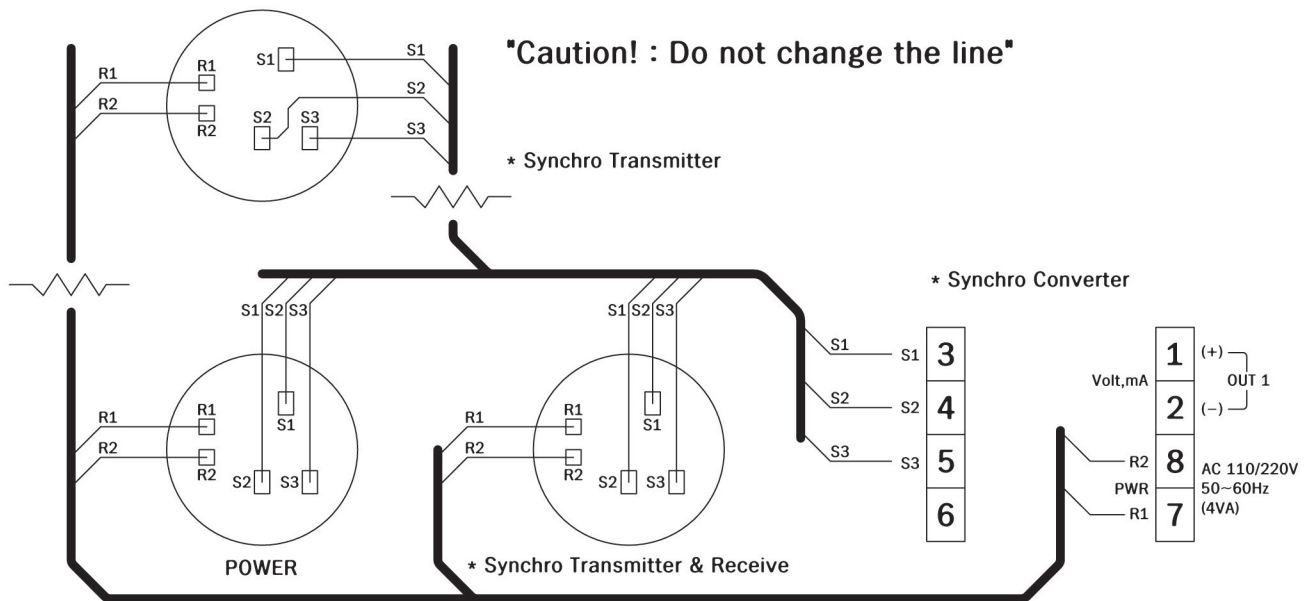
동기 변환기

SYNCHRONOUS CONVERTER

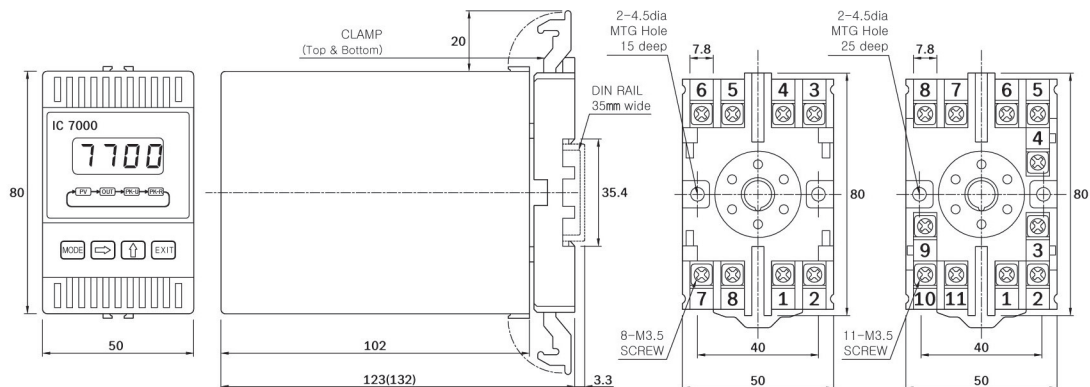
ORDERING CODE

IC 77			-		Description
Input	0				Synchronous
	1				Etc
Power		0			AC 110/220V by S/W
Output				0	DC 4.00~20.00mA
				1	Etc

TERMINAL DIAGRAM



DIMENSION & PANEL CUT



* When mounting, no extra space is needed between units