

# General Specifications

## SIGNAL ISOLATOR



This instrument receives DC voltage and current as input signal and provides conversion output in state that the input & output is separated completely. Especially, input & output has built in photo-coupler and power, input & output have built in 3 way isolation circuit separated by transformer.

This is a high accurate converter which is the most compatible to protection of impulse noise, high peak voltage required from isolation with field instrument, computer interface, etc.

### SPECIFICATIONS

ITEMS	DESCRIPTIONS
INPUT	DC signal (Current input to be combined through the application of precise resistor shunt)
OUTPUT	DC Current or DC Voltage Signal
ACCURACY	$\frac{1}{4}$ 0.1% Max.
TEMP. COEFFICIENT	$\frac{1}{4}$ 0.015% / $^{\circ}\text{C}$
LINEARITY	$\frac{1}{4}$ 0.02% F.S
REPEATABILITY	$\frac{1}{4}$ 0.02% F.S
RESPONSE TIME	Less than 0.5Sec (0-90%)
INSULATION RESISTANCE	Greater than 100M $\Omega$ at DC 500V
DIRECTRIC-STRENGTH	Input-Power AC1,500V
	Input-Output AC1,500V
	Input-Ground AC1,500V
	1 minute
POWER SUPPLY	AC110V AC220V $\frac{1}{4}$ 10% 50-60Hz 3.5VA
AMBIENT-TEMP	-5~+55 $^{\circ}\text{C}$ (20~130 $^{\circ}\text{F}$ )
HUMIDITY	Less than 90% RH (no condensation)
LINEARIZER	Standard function
CASE MATERIAL	AL
COLOR	BLACK
WEIGHT	About 500g
DIMENSION	W42 x H90 x D120mm
MOUNTING	WALL
OUTPUT	Refer to Attached Technical Sheet.
LOAD RESISTANCE	

### ORDERING CODE

MODEL : D S S I -    -

#### INPUT SIGNAL

- |              |             |             |
|--------------|-------------|-------------|
| 1 DC 0~10mV  | A DC 0~1mA  | G DC 4~20mA |
| 2 DC 0~100mV | B DC 0~10mA | H Others    |
| 3 DC 0~1V    | C DC 0~16mA |             |
| 4 DC 0~10V   | D DC 0~20mA |             |
| 5 DC 0~5V    | E DC 1~5mA  |             |
| 6 DC 1~5V    | F DC 2~10mA |             |

#### OUTPUT SIGNAL

- |                                  |
|----------------------------------|
| 1 DC 0~1mA                       |
| 2 DC 0~10mA                      |
| 3 DC 0~16mA                      |
| 4 DC 0~20mA                      |
| 5 DC 1~5mA                       |
| 6 DC 2~10mA                      |
| 7 DC 4~20mA                      |
| 8 Other Current (Less than 20mA) |
| A DC 0~10mV                      |
| B DC 0~100mV                     |
| C DC 0~1V                        |
| D DC 0~10V                       |
| E DC 0~5V                        |
| F DC 1~5V                        |
| G Other Voltage (Less than 12V)  |

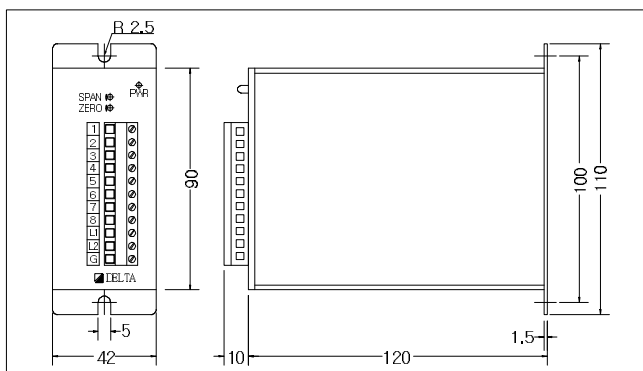
#### POWER SUPPLY

- |          |           |
|----------|-----------|
| 1 AC110V | 2 AC 220V |
|----------|-----------|

#### I/O ISOLATION

- |             |               |
|-------------|---------------|
| G : General | Y : Isolation |
|-------------|---------------|

### DIMENSION



### WIRING DIAGRAM

INPUT			OUTPUT			POWER	
1	+	SIGNAL	5	+	OUT	L1	U(+)
2	-		6	-		L2	V(-)
3	NC		7	NC		G	GND
4			8				