

General Specifications

SQUARE ROOT CONVERTER



This is a high accurate converter which linearizes, compensates the square root scale of current output corresponding to flow in combination with pressure flow transmitter(D/P transmitter).

As requiring of user, it is possible to change cut off range of unstable low level flow.

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	$\pm 0.2\%$ of span (Output 0% and 20~100%) $\pm 0.3\%$ of span (Output 0% and 10~20%)
TEMP. COEFFICIENT	$\pm 0.02\%$ F.S (Output 0% and 20~100%)
RESPONSE TIME	Less than 0.5Sec (0-90%)
INSULATION RESISTANCE	Greater than 100M Ω at DC 500V
DIRECTRIC-STRENGTH	Input-Power AC1,500V
	Input-Output AC1,500V
	Input-Ground AC1,500V
	1 minute
POWER SUPPLY	AC110V AC220V $\pm 10\%$ 50-60Hz 3.5VA
AMBIENT-TEMP	-5 ~ +55°C (20~130 $^{\circ}$ 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
STANDARD FUNCTION	The less Output of 10% is forced to be 0% Output by Drop out Circuit
OUTPUT LOAD RESISTANCE	Refer to Attached Technical Sheet.

ORDERING CODE

MODEL : D S S Q - -

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)

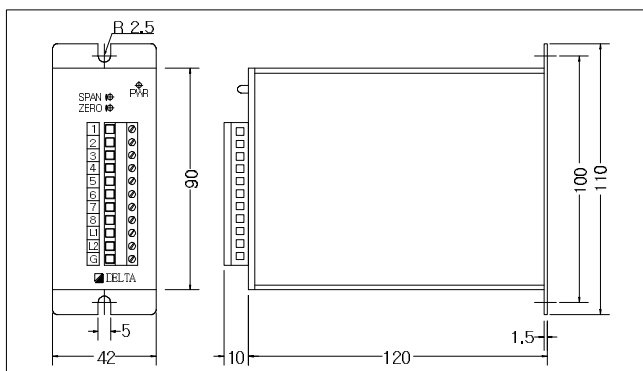
POWER SUPPLY

1 AC110V	2 AC 220V
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I/O ISOLATION

G : General	Y : Isolation
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DIMENSION



WIRING DIAGRAM

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