

UNIVERSAL SIGNAL TRANSMITTER

■ FEATURE

- Multi input (T/C, RTD, DC V, DC mA, 2wire 4~20mA)
- 1&2 Isolated output
- 2Point Alarm output
- 7Segment LED display
- Input Scale function
- Alarm Type selection Function
- Free voltage power (AC85~264V)
- CE Approved

DZWT - SERIES



CE

Contents

	ITEMS	MODEL	PAGE
1	UNIVERSAL SIGNAL TRANSMITTER	DZWT	128 ~ 129

General Specifications

UNIVERSAL SIGNAL TRANSMITTER



CE

This is a signal Converter that has multi function and high function using one chip micro process by our experience and know-how.

It is operated freely by front key. it has two alarm outputs. Measurements and various setting values are indicated on front 7-segments LED display.

Power adopts free voltage(AC85~264V)

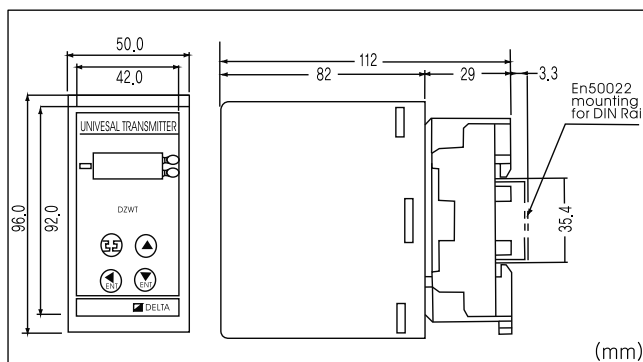
SPECIFICATIONS

ITEMS	DESCRIPTIONS
INPUT	T/C, RTD, mV, V, mA, 4~20mA 2wire
SUPPLY CURRENT TO Pt BULB	DC 300uA
RTD Max. Lead Resistance	Less than 10Ω
OUTPUT	DC Current or DC Voltage signal Relay contact (AC125V/0.5A, DC30V/1A)
ACCURACY	T/C TYPE : ±0.5% of Full Scale RTD TYPE : ±0.25% of Full Scale DC TYPE : ±0.1% of Full Scale
TEMP. COEFFICIENT	± 0.02% / °C
OUTPUT RATING SUPPLY TO X' TR	DC 24V 30mA
BURN OUT	Specify any of up scale or down scale
DISPLAY	-9999 ~ 9999 7 Segment LED 4 digit
INSULATION RESISTANCE	Greater than 100MΩ at DC 500V
DIELECTRIC - STRENGTH	Input - Output1,2, Power AC 1,500V/1mA
	Input - Relay AC 1,000V/1mA
	Output1,2 - Power AC 1,500V/1mA
	Output1 - Output2 AC 1,500V/1mA
	1 Minute
POWER SUPPLY	AC 85~264V, 50~60Hz (Rating 100~240V), 8VA
AMBIENT - TEMP	0 ~ +50°C (32 ~ 122 °F)
HUMIDITY	45 ~ 80% RH (no condensation)
CASE MATERIAL	ABS
COLOR	Black
WEIGHT	About 250g
DIMENSION	W50X H96 X D112mm
MOUNTING	DIN RAIL

OUTPUT LOAD RESISTANCE

OUTPUT SIGNAL	LOAD RESISTANCE
DC 4~20mA	Less than 600Ω
DC 1~5V	More than 2.5KΩ

DIMENSION



ORDERING CODE

MODEL : DZWT - [] [] [] [] - []

INPUT SIGNAL

P. JPt100, D. Pt100
K. K type, J. J type, R. R type, S. S type
B. B type, E. E type, T. T type, N. N type
3. 0~1V DC, 4. 0~5V DC, 5. 0~10V DC
6. 1~5V DC, 7. 4~20mA DC
8. 4~20mA DC (DC24V 2Wire)
0. Other

OUTPUT1 SIGNAL

4. 0~20mA DC
7. 4~20mA DC
C. 0~1V DC
D. 0~5V DC
E. 0~10V DC
F. 1~5V DC
N. None

OUTPUT2 SIGNAL

2. RELAY
N. None
Same Range Available as OUTPUT 1

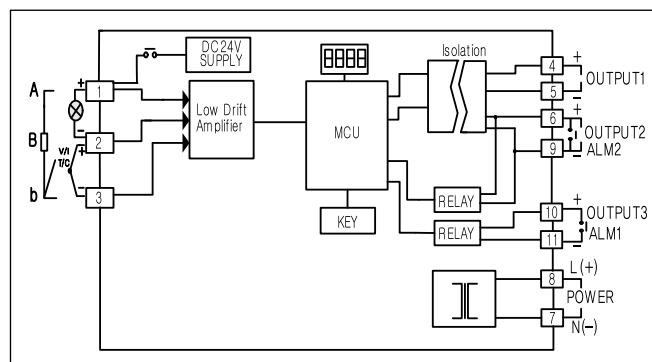
OUTPUT3 SIGNAL

2. RELAY
N. None

POWER SUPPLY

1. AC 85V~264V

BLOCK DIAGRAM



General Specifications

UNIVERSAL SIGNAL TRANSMITTER

INPUT RANGE TABLE (PG-1)

GROUP		INPUT TYPE		INPUT SELECT
Temperature Input	T/C	K (ℰ)	-199.9 to 999.9℃	0
			-200 to 1372℃	1
		J	-199.9 to 999.9℃	2
			-200 to 1200℃	3
		T (f)	-199.9 to 400.0℃	4
		R (r)	0 to 1769℃	5
		S (5)	0 to 1769℃	6
		B (b)	0 to 1820℃	7
		E (É)	-200 to 1000℃	8
		N (n)	0 to 1300℃	9
		PL II (P)	0 to 1390℃	10
		W5Re/W26Re (¯)	0 to 2320℃	11
		U (Ÿ)	0 to 600℃	12
		L (ł)	0 to 900℃	13
		K (ℰ)	-199.9 to 999.9°F	14
			-330 to 2500°F	15
		J	-199.9 to 999.9°F	16
			-330 to 2192°F	17
		T (f)	-199.9 to 752.0°F	18
		R (r)	0 to 3216°F	19
		S (5)	0 to 3216°F	20
		B (b) ※ 5	0 to 3308°F	21
		E (É)	-330 to 1832°F	22
		N (n)	0 to 2372°F	23
		PL II (P)	0 to 2534°F	24
		W5Re/W26Re (¯)	0 to 4208°F	25
		U (Ÿ)	0 to 1100°F	26
		L (ł)	0 to 1600°F	27
RTD	JPt100Ω	-199.9 to 510.0℃	28	
	Pt100Ω	-199.9 to 660.0℃	29	
	JPt Ω	-199.9 to 950.0°F	30	
	Pt100Ω	-199.9 to 999.9°F	31	
D C Signal	Voltage Input (Low)	mV, V (ℰ)	0 to 10mV DC	32
			0 to 100mV DC	33
			0 to 1V DC	34
	Voltage Input (High)	V (ℰ)	0 to 5V DC	35
			1 to 5V DC	36
			0 to 10V DC	37
Current Input	mA (¡)	0 to 20mA DC	38	
		4 to 20mA DC	39	
XTR (2-Wire)	Current Input	mA (¡)	4 to 20mA DC	40

※ 5 Accuracy in the range of 0 to 400℃ (0 to 800°F) : Not guaranteed

OUTPUT TYPE TABLE (PG-2)

Output 1st type	Output 2nd type	Output 3rd type	Output type select
A, O 1 (Current)	X	X	1
A, O 1 (Current)	A, O 2 (Current)	X	2
A, O 1 (Voltage)	X	X	3
A, O 1 (Voltage)	A, O 2 (Voltage)	X	4
A, O 1 (Relay)	X	X	5
A, O 1 (Relay)	A, L 2 (Relay)	X	6
A, O 1 (Current)	A, O 2 (Voltage)	X	7
A, O 1 (Voltage)	A, O 2 (Current)	X	8
A, O 1 (Current)	A, L 1 (Relay)	X	9
A, O 1 (Voltage)	A, L 1 (Relay)	X	10
A, O 1 (Current)	A, O 2 (Current)	A, L 1 (Relay)	11
A, O 1 (Voltage)	A, O 2 (Voltage)	A, L 1 (Relay)	12
A, O 1 (Current)	A, O 2 (Voltage)	A, L 1 (Relay)	13
A, O 1 (Voltage)	A, O 2 (Voltage)	A, L 1 (Relay)	14
A, O 1 (Current)	A, L 1 (Relay)	A, L 2 (Relay)	15
A, O 1 (Voltage)	A, L 1 (Relay)	A, L 2 (Relay)	16