



Digital Controller

SHIMADEN

SR1 / SR3 / SR4 36P Series

BASIC FEATURES

- Multi-input and multi-range performance
- Large 20mm bright display (SR3)
- Dust and splash proof front panel NEMA4X / IP66



ORDERING INFORMATION

ITEM	CODE	SPECIFICATIONS
SERIES	SR1 –	MPU-Based Auto-Tuning PID Digital Controller, DIN H48 x W48 x D111mm
	SR3 –	MPU-Based Auto-Tuning PID Digital Controller, DIN H96 x W96 x D111mm
	SR4 –	MPU-Based Auto-Tuning PID Digital Controller, DIN H96 x W48 x D111mm
INPUT	8	Multi input
		Thermocouple: B, R, S, K, E, J, T, N, PLII, WRe5-26 {U, L (DIN 43710)}
	6	R.T.D.: Pt100/JPt100
		Voltage(mV): -10~10, 0~10, 0~20, 0~50, 10~50, 0~100mV DC
CONTROL OUTPUT	Y – I – P – V –	Scaling possible
		Range : -1999~9999
		Span : 10~5000
		Voltage (V): -1~1, 0~1, 0~2, 0~5, 1~5, 0~10V DC
EVENT OUTPUT	1	0~20mA DC:(V) 0~5V DC
		Current (mA): 4~20mA DC:(V) 1~5V DC (applied via enclosed 250 Ω shunt resistor)
		Contact 1a Contact capacity: 240V AC 2.0A/resistive load Proportional cycle: 1~120 seconds
		Current 4~20mA DC Load Resistance: 600 Ω max.
REMARKS	W X	SSR drive voltage 12V ±1.5V DC 30mA max. Proportional cycle:1~120 seconds
		Voltage 0~10V DC Load current: 2mA max.
		Event output (1a) x 2 points, Contact capacity: 240V AC 1A/resistive load
		Without
		With (Please consult before ordering.)

MEASURING RANGE CODES

Type of input	Code	Scaling range
Thermocouple	B *1	01 0 ~ 1800 °C 0 ~ 3300 °F
	R	02 0 ~ 1700 °C 0 ~ 3100 °F
	S	03 0 ~ 1700 °C 0 ~ 3100 °F
	*3	04 -199.9 ~ 400.0 °C -300 ~ 750 °F
	K	05 0.0 ~ 800.0 °C 0 ~ 1500 °F
		06 0 ~ 1200 °C 0 ~ 2200 °F
	E	07 0 ~ 700 °C 0 ~ 1300 °F
	J	08 0 ~ 600 °C 0 ~ 1100 °F
	T *3	09 -199.9 ~ 200.0 °C -300 ~ 400 °F
	N	10 0 ~ 1300 °C 0 ~ 2300 °F
	PLII *4	11 0 ~ 1300 °C 0 ~ 2300 °F
	WRe5-26 *5	12 0 ~ 2300 °C 0 ~ 4200 °F
	U *2, *3	13 -199.9 ~ 200.0 °C -300 ~ 400 °F
	L *2	14 0 ~ 600 °C 0 ~ 1100 °F
R.T.D.	Pt100	31 -200 ~ 600 °C -300 ~ 1100 °F
		32 -100.0 ~ 100.0 °C -150.0 ~ 200.0 °F
		33 -50.0 ~ 50.0 °C -50.0 ~ 120.0 °F
		34 0.0 ~ 200.0 °C 0.0 ~ 400.0 °F
	JPt100	35 -200 ~ 500 °C -300 ~ 1000 °F
		36 -100.0 ~ 100.0 °C -150.0 ~ 200.0 °F
		37 -50.0 ~ 50.0 °C -50.0 ~ 120.0 °F
		38 0.0 ~ 200.0 °C 0.0 ~ 400.0 °F
Type of input	Code	Scaling range
Voltage (mV)	-1010 ~	71
	0 ~ 10	72
	0 ~ 20	73
	0 ~ 50	74
	10 ~ 50	75
	0 ~ 100	76
Voltage (V)	-11 ~	81
	0 ~ 1	82
	0 ~ 2	83
	0 ~ 5	84
	1 ~ 5	85
	0 ~ 10	86

Note : *1 Ther mocouple B: Accuracy guarantee not applicable Temp. below 400 °C
*2 Thermocouple U, L: DIN 43710
*3 Thermocouple K, T, U: Accuracy guarantee not applicable Temp below -100.0°C. ± (1.0%FS+1digit) & -100.0 ~ 0.0 °C ± (0.5%FS+1digit)
*4 Thermocouple PLII: Platinel
*5 Thermocouple WRe5-26: ASTM988
*Unless otherwise specified, following setting will be applied for shipment.

Input	Specification/Rating	Measuring range
Multi input	K thermocouple	0.0~800.0C
Voltage (V)	0~10V DC	0.0~100.0

Control Output	Control Mode
Y	ON-OFF (P=OFF)
I, P, V	PID Control (P=3.0)