

DIGITAL CONTROLLER

SERIES SR32, SR33

- DIN Size 48 (H) × 48 (W) mm
- Digital Setting
- Easy Installation



SERIES SR32

Series SR33

SPECIFICATIONS

Display Type / Accuracy:

SR32: Digital Display / LED 8.0 (H) × 4.0 (W) mm
±1.5% FS+1 digit (Thermocouple input)
±1.0% FS+1 digit (R.T.D. input)

SR33: Bar Graph Deviation / ±1.5%

Setting Type / Accuracy:

Input: Digital / ±1.5% FS

R.T.D.: Pt100

Amperage: 2mA

Lead wire tolerable resistance: 2Ω max. / wire

Thermocouple: J, K, L

Cold junction temperature compensation range: 5~45°C

Input resistance: 200kΩ

External resistance: 100Ω max.

Burnout circuit: Standard

Voltage: 0~10mV DC linear

Input Impedance: 200kΩ

Current: 4~20mA DC linear

Receiving Impedance: 250Ω

Control Mode:

On / Off Sensitivity (S): 0.3% FS fixed

Proportioning:

Proportional band (PB): 4% FS fixed

Manual reset (MR): Adjustable from front face

Proportional cycle:

Contact Output: Approx. 30 sec.

SSR voltage: Approx. 3 sec.

Control Output:

Contact: 240V AC, 1A / inductive load,
2.5A / resistive load

SSR voltage: 12V DC, 20mA max. (reverse action)

Power Consumption: Approx. 3VA

Operating Ambient

Temperature Range: -10~50°C

Operating Ambient

Humidity: 90% RH max.

Insulation Resistance: 500V DC, 20MΩ min.
between the input and power supply terminals

Dielectric Strength: 1min.at 500V AC
between the input and power supply terminals

External Dimensions: 48 (H) × 48 (W) × 100 (D) mm
(90mm behind the panel)

Installation: Push-in mounting
(no mounting hardware necessary)

Panel Cutout: 45 (H) × 45 (W) mm

Panel Thickness: 1.0~3.5mm

Weight: Approx. 210g

ORDERING INFORMATION

ITEMS	CODE		SPECIFICATIONS
SERIES	SR32-		Digital Display Temperature Controller
	SR33-		Bar Graph Deviation Display Temperature Controller
INPUT	1		Thermocouple, Input resistance: 200kΩ
	2		R.T.D. (Pt100), Amperage: 2mA
	3		Voltage, 0~10mV DC Linear, Impedance: 200kΩ
	4		Current, 4~20mA DC Linear, Receiving Impedance: 250Ω
	9		Others (Please consult before ordering.)
CONTROL MODE	01		Proportioning (PB): 4% FS, w / Manual Reset (MR)
	02		On / Off (2-position), Sensitivity (S): 0.3% FS Fixed
	99		Others (Please consult before ordering.)
CONTROL OUTPUT	Y-		Contact, 240V AC, 1A / Inductive load, 2.5A / Resistive load
	P-		SSR voltage, 12V DC / RA, Max. current: 20mA
	X-		Others (Please consult before ordering.)
POWER SUPPLY	11-		100~110V / 200~220V AC ±10%, 50 / 60Hz
	12-		110~120V / 220~240V AC ±10%, 50 / 60Hz
	99-		Others (Please consult before ordering.)
INPUT STANDARD	N		None
	J		JIS
	D		DIN
	F		JIS (New Pt100-JIS)
	A		ANSI
	X		Others (Please consult before ordering.)
TYPE OF INPUT	J		Thermocouple (J)
	K		Thermocouple (K)
	Q		Thermocouple (L) (DIN 43710)
	P		R.T.D. (Pt100)
	L		Linear - voltage and current inputs
	X		Others (Please consult before ordering.)
MEASURING RANGE			See Measuring Range Codes.
LEGEND	N		None
	C		°C Temperature
	F		°F Temperature
	X		Others (Please consult before ordering.)
REMARKS	0		Without
	9		With (Please consult before ordering.)

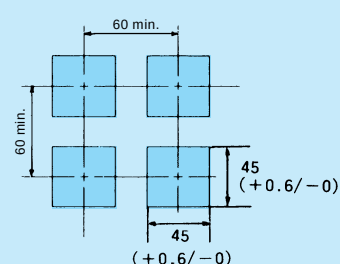
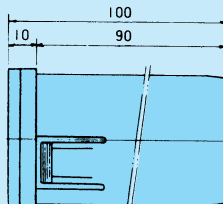
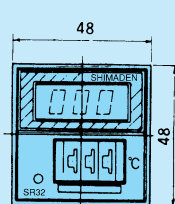
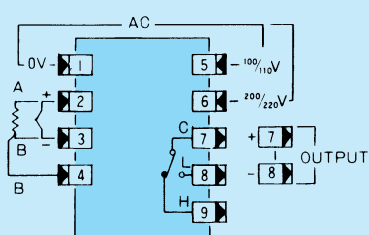
MEASURING RANGE CODES

INPUT	RANGE	CODE
R.T.D. (Pt100)	-99~ +99°C	576
	0~ 99.9°C	781
	0~ 399°C	792
Thermocouple	J 0~ 399°C	792
	L 0~ 399°C	792
	K 0~ 399°C	792
	K 0~ 999°C	874

INPUT	RANGE	CODE
R.T.D. (Pt100)	0~399°F	792
	0~799°F	871
	0~799°F	871
Thermocouple	J ★ 0~499°F	795
	K 0~999°F	874
Voltage / Current	0~ 99.9	781
	0~499	795
	0~999	874

★ Accuracy will be ±2.0% FS + 1-digit.

TERMINAL ARRANGEMENT & EXTERNAL DIMENSIONS



Unit : mm