

# DIGITAL CONTROLLER

## SERIES SR32, SR33

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



SERIES SR32

Series SR33

### SPECIFICATIONS

Display Type / Accuracy:		Control Output:	
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 )	Contact:	240V AC, 1A / inductive load, 2.5A / resistive load
SR33:	Bar Graph Deviation / ±1.5%	SSR voltage:	12V DC, 20mA max. (reverse action)
Setting Type / Accuracy:	Digital / ±1.5% FS	Power Consumption:	Approx. 3VA
Input:		Operating Ambient	
R.T.D.:	Pt100	Temperature Range:	-10~50°C
Amperage:	2mA	Operating Ambient	
Lead wire tolerable		Humidity:	90% RH max.
resistance:	2Ω max. / wire	Insulation Resistance:	500V DC, 20MΩ min. between the input and power supply terminals
Thermocouple:	J, K, L	Dielectric Strength:	1 min.at 500V AC between the input and power supply terminals
Cold junction temperature		External Dimensions:	48 (H) × 48 (W) × 100 (D) mm (90mm behind the panel)
compensation range:	5~45°C	Installation:	Push-in mounting (no mounting hardware necessary)
Input resistance:	200kΩ		
External resistance:	100Ω max.	Panel Cutout:	45 (H) × 45 (W) mm
Burnout circuit:	Standard	Panel Thickness:	1.0~3.5mm
Voltage:	0~10mV DC linear	Weight:	Approx. 210g
	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.		

**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
	* 0~499°F	795
Thermocouple	J 0~799°F	871
	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**

