

SERIES SR35

- DIN Size 72 (H) × 72 (W) mm
- Digital Setting
- Easy Installation



Series SR35

SPECIFICATIONS

Display Type / Accuracy:		Control Output:	
SR35:	Digital Display / $\pm 0.5\%$ FS + 1 digit (Measuring range: See range Codes table.)	Contact:	240V AC, 2.5A / resistive load, 1A / inductive load
Setting Type=Accuracy:	Digital / $\pm 0.7\%$ FS	SSR voltage:	15A DC / RA, 20mA max.
A / D Conversion:	Dual-slope integration	Current:	4~20mA DC / RA.
Input:		Load resistance:	600Ω max.
R.T.D.:	Pt100	Control action	
Amperage:	2mA	Display (green):	Contact output: C-L / On Current output: Power supply lamp SSR voltage output: Lights when output.
Lead wire tolerable resistance:	2Ω max. / wire		
Thermocouple:	J, K, L, R, S	Analog Output:	
Cold junction temp. compensation range:	5~45°C	Accuracy:	$\pm 0.5\%$ of measuring range
Input resistance:	200kΩ min.	Voltage:	0~10mV DC
External resistance:	100Ω max.	Output Resistance:	10Ω
Burnout circuit:	Standard (up-scale)	Alarm:	Selectable setting (high or low) deviation type (non-inhibit)
Voltage:	0~10mV DC linear	(Not Available for 3-Position Control)	
Input impedance:	200kΩ min.	Setting range:	-10~0~+10% FS
Current:	4~20mA DC linear	Output:	Contact
Receiving impedance:	250Ω	Alarm sensitivity:	0.3% FS fixed
Control Mode:		Contact rating:	240V AC, 2.5A / resistive load
On / Off:	Sensitivity (SA): 0.3~5% FS adjustable	Alarm action display:	ALC-ALH / On: Red lamp lights.
Proportioning:		Alarm setting:	By front ALARM VR
Proportional band (PB):	1~20% FS adjustable (Factory- set at 4% FS)	Power Consumption:	Approx. 4VA
Manual reset (MR):	Adjustable from front face	Operating Ambient Temperature Range:	-10~+50°C
Proportioning cycle:	Contact output: Approx.30 sec. SSR voltage: Approx. 3 sec.	Humidity:	90% RH max.
3-Position (NZ):	1~20% FS adjustable Sensitivity (SA): 0.3% FS fixed	Insulation Resistance:	500V DC, 20MΩ between the input / output and power supply terminals
		Dielectric Strength:	1 min. at 500V AC between the input and power supply terminals
		External Dimensions:	72 (H) × 72 (W) × 103 (D) mm (90mm behind the panel)
		Panel Cutout:	68 (H) × 68 (W) mm Tolerance: +0.7 / -0mm
		Panel Thickness:	1~4mm
		Weight:	Approx. 350g

ORDERING INFORMATION

ITEMS	CODE			SPECIFICATIONS
SERIES	SR35-			Digital Display Controller
INPUT	1			Thermocouple, Input Resistance: 200kΩ, External resistance: 100Ω max.
	2			R.T.D. (Pt100), Amperage: 2mA, Tolerable resistance: 2Ω max. / wire
	3			Voltage, 0~10mV DC Linear, Input resistance: 200kΩ
	4			Current, 4~20mA DC Linear, Receiving impedance: 250Ω
	9			0~100mV DC, 0~1V DC (For others, please consult before ordering.)
CONTROL MODE	1			Proportioning, (PB): 1~20% FS Adjustable, Manual reset (MR): Adjustable
	2			On / Off (2-position), Sensitivity adjust (SA): 0.3~5% FS Adjustable
	3			3-Position NZ: 1~20% FS, SA: 0.3%, Output (Y) only
	9			Others (Please consult before ordering.)
CONTROL OUTPUT	Y-			Contact, 240V AC, 1A / Inductive, 2.5A / Resistive Load, Cycle: 30 sec.
	I-			Current (Proportioning type only), 4~20mA DC / RA, Load resistance: 600Ω max.
	P-			SSR voltage, 15V DC / RA, Max.current: 20mA
	X-			Others (Please consult before ordering.)
ALARM	00			None Provided
	93			Selectable setting (High or Low) deviation alarm, -10~0~+10% FS ★
ANALOG OUTPUT	0			None
	3			Voltage (0~10mV DC), Output Resistance: 10Ω
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
		F		JIS (New Pt100-JIS)
		D		DIN
		A		ANSI
TYPE OF INPUT		J		Thermocouple (J)
		K		Thermocouple (K)
		R		Thermocouple (R)
		S		Thermocouple (S)
		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		No legend
		C		°C Temperature
		F		°F Temperature
		H		% RH Humidity
		X		Others (Please consult before ordering.)
REMARKS		0		Without
		9		With (Please consult before ordering.)

★ Not available for 3-position control

MEASURING RANGE CODES

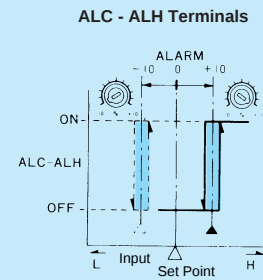
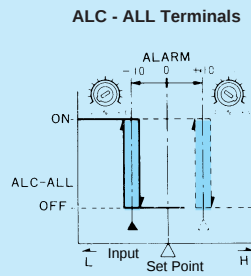
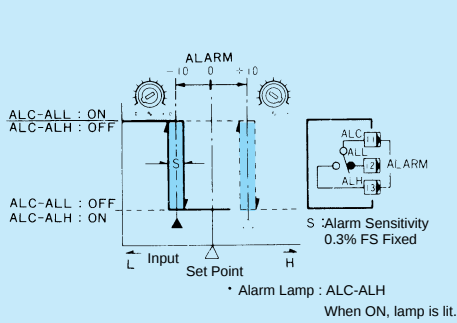
INPUT	RANGE	CODE
R.T.D. (Pt100)	-99.9~ +99.9°C	579
	0 ~ 99.9°C	781
	0 ~ 399°C	792
Thermocouple	J 0 ~ 399°C	792
	K 0 ~ 399°C	792
	K 0 ~ 999°C	874
	K 0 ~1199°C	877
	L ★ 0 ~ 399°C	792
	R ★ 0 ~1699°C	885

INPUT	RANGE	CODE
R.T.D. (Pt100)	0~ 399°F	792
	0~ 799°F	871
Thermocouple	J 0~ 499°F	795
	J 0~ 799°F	871
	K 0~ 999°F	874
	K 0~1199°F	877
	K 0~1999°F	887
	Voltage / Current 0~ 99.9%RH	781
Voltage / Current	0~ 499	795
	0~ 999	874

★ Effective measuring range is 600~1699°C
Display accuracy for this range is 0.7% FS+1 digit.

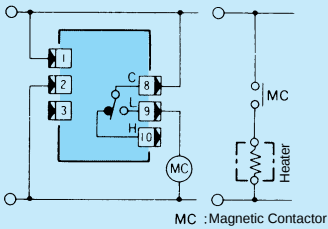
DIGITAL CONTROLLER

ALARM CONFIGURATIONS

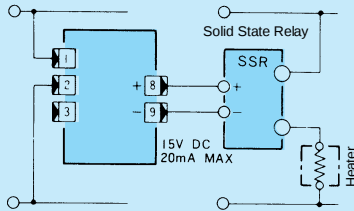


WIRING EXAMPLES

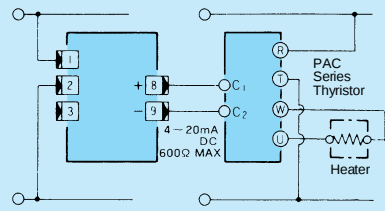
Contact Output



SSR Voltage Output

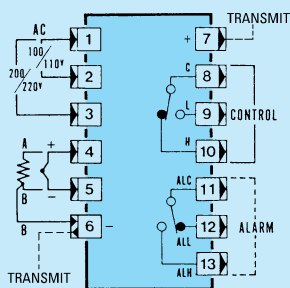


Current Output (Proportioning only)

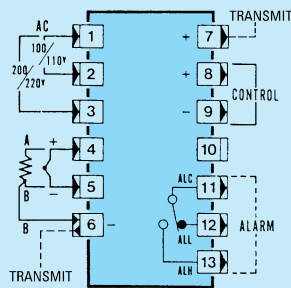


TERMINAL ARRANGEMENT

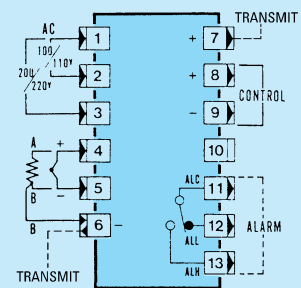
Contact Output



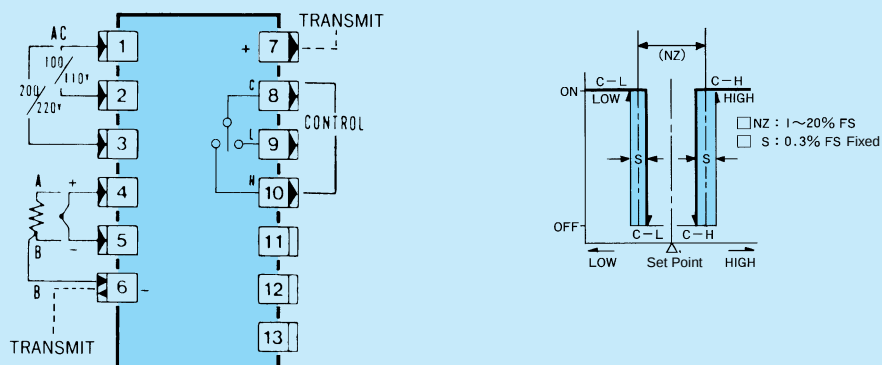
SSR Voltage Output



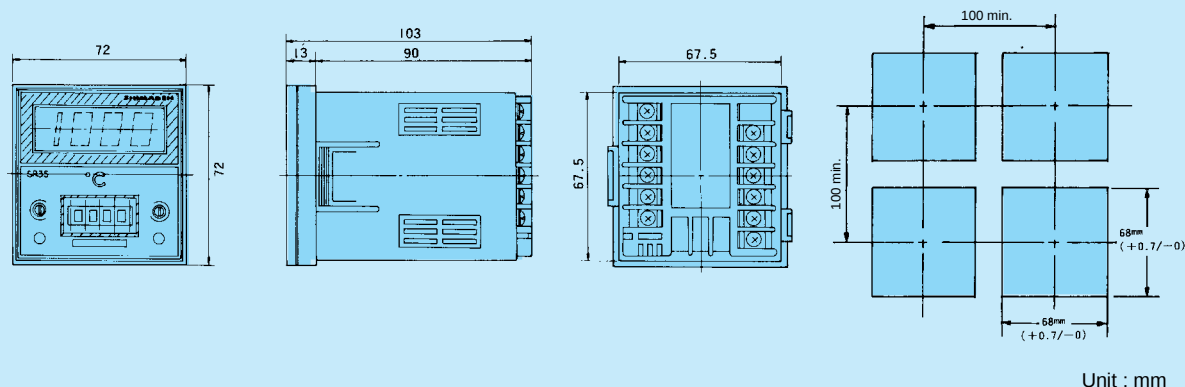
Current Output



CONTACT OUTPUT TYPE 3-Position Control



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