

°C	Series SR23
%RH	
SHIMADEN	

SHIMADEN DIGITAL CONTROLLER



CE, UL standard being applied to

BASIC FEATURES

- 2-channel controller (Basic type: 1-channel controller)
- Independent 2-loop / Internal Cascade / 2-input operation control
- High accuracy $\pm (0.1\% FS + 1 \text{ digit})$
- High Sampling Cycle 0.1 sec.
- High resolution 1/1000 °C display achieved
*Only for R.T.D. input (scale: 0.000~30.000 °C)
- Auto-Tuning PID / Expert PID / Self-Tuning PID
- Multi-Setting of 10 Set Values
- Independent Universal-Input
- User Friendly Operation (Menu Driven: 4 Lines LCD Display)
- Easy Setting & Maintenance via Infrared COM port on the front panel
- Interface RS-232C/RS-485 (MODBUS / Shimaden)
- The front dust/splash-proof IP66
- Universal Power Supply (100~240V AC $\pm 10\%$)
- Sensor power supply

- 1-output control

Ordering Information

ITEM	CODE		SPECIFICATIONS		
SERIES	SR23-		96 × 96 DIN size, high-performance digital controller		
BASIC FUNCTIONS	SS		Universal-input, 1-input/1-output control, 3 event outputs		
CONTROL OUTPUT 1		Y	Contact 1c, contact rating: 240V AC 2.5A/resistive load, 1A/inductive load		
		I	Current 4 ~ 20mA DC, Load resistance: max. 600Ω		
		P	SSR drive voltage output 12V±1.5V DC, Load current: max. 30mA		
		V	Voltage 0 ~ 10V DC, Load current: max. 2mA		
CONTROL OUTPUT 2	N-		None		
REMOTE SETTING INPUT /HEATER BREAK ALARM (FOR SINGLE-PHASE)	standard	06	0 ~ 10V DC, Input resistance: approx. 500kΩ	Non-insulated input	
		04	4 ~ 20mA DC, Input resistance: 250Ω		
		05	1 ~ 5V DC, Input resistance: approx. 500kΩ		
		14	4 ~ 20mA DC, Input resistance: 250Ω		
		15	1 ~ 5V DC, Input resistance: approx. 500kΩ	Insulated input	
		16	0 ~ 10V DC, Input resistance: approx. 500kΩ		
		31	Heater break alarm* (heater current 30A with CT)		* Selectable only when Control Output 1 is Y or P
		32	Heater break alarm* (heater current 50A with CT)		
ANALOG OUTPUT 1		0	None		
		3	0 ~ 10mV DC, Output resistance: 10Ω		
		4	4 ~ 20mA DC, Load resistance: max. 300Ω		
		6	0 ~ 10V DC, Load current: max. 2mA		
ANALOG OUTPUT 2 / SENSOR POWER SUPPLY		0	None		
		3	0 ~ 10mV DC, Output resistance: 10Ω		
		4	4 ~ 20mA DC, Load resistance: max. 300Ω		
		6	0 ~ 10V DC, Load current: max. 2mA		
		8	Sensor power supply 24V DC 25mA		
EXTERNAL INPUT/ OUTPUT CONTROL SIGNAL (DI/DO) *1	standard	0	DI 4 points, DO 5 points (SV No. switching not available)		
		1	DI 10 points, DO 9 points (SV No. switching available)		
		2	DI 10 points, DO 13 points (SV No. switching available)		
COMMUNICATION FUNCTION		0	None		
		5	RS-485	Shimaden standard protocol / MODBUS (RTU/ASCII) communication protocol	
		7	RS-232C		
REMARKS		0	Without		
		9	With		

*1 When switching the SV No. by DI, 10 points of DI (CODE 1 or 2) are required.

*2 Ten DI points (code 1 or 2) are required for switching the SV No. by DI.

Optional Accessories

Name	Model	Description
Infra-red Communication Adapter	S5004	USB connector cable (2m), Setup Software (CD-ROM)
Shunt Resistor	QCS002	250Ω ±0.1%, external input resistance at current input
Relay Unit	AP2MC	Converts open collector output to contact output. 2 circuits built-in
SV No. Selector	KA251	BIN code. SV1 ~ SV10 can be switched and selected.

Relay Unit Model AP2MC
(Converts open collector output to contact output. 2 circuits built-in)



SV No. Selector Model KA251
(BIN code. SV1 ~ SV10 can be switched and selected.)



Infra-red Communication Adapter Model S5004 with USB connector cable

