



Digital Controller

SHIMADEN

MR13 Series

BASIC FEATURES

- 3-channel controller, 3-channel input, 3-channel setting and simultaneous 3-channel display are possible
- Accuracy: $\pm (0.3\% \text{ FS} + 1 \text{ digit})$
- Follow-up type PV input function
- Follow-up type SV setting function
- Remote/local and DI input function
- Programmable 1 pattern with 9-step function
- Included a new processing system, Expet PID, remarkably improved PID control efficiency; overshoot and undershoot are controlled effectively.
- Interface RS232/RS485



ORDERING INFORMATION

ITEMS		CODE		SPECIFICATIONS	
SERIES	MR13-			MPU-Based 3 Channel Auto-Tuning PID Controller DIN 96 × 96mm	
INPUT		1		Thermocouple B, R, S, K, E, J, T, N, PLII, WRe5-26, U, L	Multi-input Multi-range
		2		R.T.D. Pt100 / JPt100	Multi-range
		3		Voltage (mV) -10-10, 0-10, 0-20, 0-50, 10-50, 0-100mV DC	Multi-input Programmable Range
		4		Current (mA) 0-20, 4-20mA DC	
		6		Voltage (V) -1-1, 0-1, 0-2, 0-5, 1-5, 0-10V DC	
CONTROL OUTPUT		Y1-		Contact: Proportional Cycle 0.5-120.0 sec. Contact capacity: 240V AC 2.5A / resistive load	
		I1-		Current: 4-20, 0-10mA DC Load resistance: 600Ω max.	
		P1-		SSR drive voltage: Proportional Cycle 0.5-120.0 sec. Output rating: 15V±3V DC / 20mA max.	
		V1-		Voltage: 0-10V DC Load current: 2mA max.	
PROGRAM FUNCTION (OPTION)		N		None	
		P		1 Pattern, 9 step	
EVENT OUTPUT (OPTION)		0		None	
		1		Contact (1a common): 240V AC 1A / resistive load EV1, EV2, EV3 / 3 Point	
REMOTE OR DI INPUT (OPTION)		00		None	
		04		4-20mA DC Receiving resistance: 250Ω	
		05		1-5V DC Input resistance: 500kΩ min.	
		06		0-10V DC Input resistance: 500kΩ min.	
		51		DI Non-Voltage Contact, Open Collector Input	
ANALOG OUTPUT OR COMMUNICATION FUNCTION (OPTION)		00		None	
		03		Voltage 0-10mV DC, Output resistance: 10Ω	
		04		Current 4-20mA DC, Load resistance: 300Ω max.	
		06		Voltage 0-10V DC, Load current: 1mA max.	
		15		RS-485	
		17		RS-232C	
REMARKS		0		Without	
		9		With (Please consult before ordering.)	