

CW991

TEMPERATURE CONTROLLER
HOT RUNNER SYSTEMS



YUDO

Specifications

HMI	Display	12" TFT Monitor		
	Input unit	4 wire Resistance-Type Touch Panel		
	Language	Korean / English/ Japanese/ Chinese		
Input	Zone	6 Zone/Unit		
	Thermocouple Type	TC-K(IEC-584), TC-J(IEC-584)		
	Control range	0.0 ~ 500.00 °C (32~932°F)		
	Scan Rate	20 ms		
	Scan Accuracy	± 0.5 % of F/S		
	Display Resolution Limit	0.1 °C or 1 °C		
	Compensable Temperature variation	± 2.0 °C (0 ~ 50°C)		
Output	Zone	6 Zone/Unit		
	Output Mode	Phase angle control, Zero cross control		
	Output Resolution Limit	Phase Angle Control: Approximately 1,000 Resolutions Zero Cross Control: 60Hz/50Hz - 120/100 Resolutions		
	Transmission Output	15A / Zone, 50A / Unit(6 Zone)		
	Transmission Output period of renewal	0.02/1sec (Difference Between the output kind)		
Environment	Operating Temperature	0 ~ 50°C		
	Operating Humidity	20 ~ 90% RH (Non-condensing)		
	Storage Temperature	-25 ~ 70°C		
	Insulation Resistance	500VDC, Over 20MΩ [Input Power-Field Ground, Input / Output-Field Ground]		
	Permissive Signal Resistance of T.C	Less than 250Ω		
	Withstand Voltage	@1,500Vac, 50/60Hz, 1min [Input Power-F/G, Input/Output-F/G, Input/Output-Input Power]		
	Vibration Resistance	10 ~ 55Hz, Bandwidth 0.75mm, 3 directions 4 swings, 5 min/swing		
	Impact Resistance	147%, 3 directions-3 times		
	Magnetic Effect	Below 400 AT/m		
	Warming-up Time	Over 30 min		
	Net Weight	Cabinet Sizing	Max. Weight	Remarks
		72	Below Max 135kg	* 6 Zone/Unit : Max 2.6kg
	108	Below Max 190kg		
Power	Voltage	3phase 4wire 380V, 3phase 3wire 220V		
	Rated frequency	50/60Hz		
	(Electric) Power Consumption	154W,175W, 217W, 260W, 315W (24, 48, 72, 96, 120 Zone - 220VAC)		
Data communication	Protocol	EIA-RS485/422, USB V2.0		
	Max. number of connection	Max. 21 IDs (include Master) Repeater is required if additional IDs are connected		
	Communication Method	Half - duplex 2 wire		
	Communication Speed	19,200 / 38,400 bps		
	Port Parameters	None parity, 8 Data, 1 Stop bit		
	Communication Distance	About within 1.2Km (Depending on the installation environment)		
Sequence timer [Optional]	Input	Injection Signal	24 VDC, 110VAC, 220VAC	
		Voltage	85~264VAC	
	Output	Relay	24VDC (Max. 100mA) x 16 outputs (valve gates)	
			110VAC (Max. 1A) x 16 outputs (valve gates)	
			220VAC (Max. 1A) x 16 outputs (valve gates)	
	System Rule	Mode	Mode A : Set Delay 1 time	
			Mode B : Set Delay 1, Open 1 times	
			Mode C : Set Delay1, Open1, Delay2, Open2 times	
	Misc.		0.00 ~ 999sec	
			Independent running	
		Detect and display Solenoid Value output voltage		
		Open all valve gates or individual valve gate.		

YUDO
Consilience Technology

YUDO Inc HEAD OFFICE | 33875 Capital St. Livonia, MI 48150
Tel. 734 744 8120 | Fax. 734 744 8123 | E-mail. yudo@yudousa.com

HEAD OFFICE & FACTORY | 1112, Seohae-Ro, Paltan-Myeon, Hwaseong-City, Gyeonggi-Do, 445-915 Korea
Tel. +82 31 350 2500 | Fax. +82 31 354 7446 | E-mail. yudo@yudohot.com

▷ We reserve the right to change any specifications without notice.
Ver.1.5 BR CW991 [2014. December]

Integrated control system

- _ Available to simultaneous control the temperature controller and the sequence injection timer
- _ Available for file management like the injection condition for each mold and log management
- _ The central control system for multi CW991 through network

Easy to use

- _ User friendly color touch LCD equipped with MMI
- _ To prevent the setting mistake, the authority code is provided to each user

Customization

- _ The optimized zone for the wide variety of injection environment
- _ Available to provide the special function upon customer's requests

Reliability

- _ 15 criteria internal safety inspections
- _ CE certification, UL approved

NEW Design

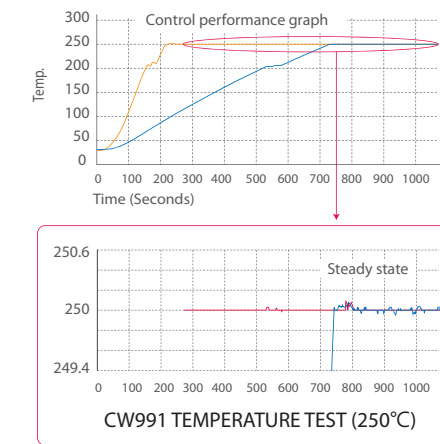


- _ There are double deck type that is up to 72 zones and triple deck type that is up to 108 zones.
- _ Monitor position and angle are adjustable.

*Max. 162 zones.

Feature

- _ High precision and speed PID control system which is applicable to the wide variety of injection environment. ($\pm 0.018^\circ\text{F}$ ($\pm 0.01^\circ\text{C}$) / 20ms)
- _ Self Auto-Tuning mode to sense each heater's property
- _ Inter-Lock function to protect mold and preventing faulty products
- _ Auto Standby function interlocked with the injection signal of injection machine.
- _ MV Bypass function used present output of other heaters.
- _ Soft Start function protects heater under low temperature.
- _ Record the error and operation history.



GUI Design

CW991 PRO GUI is designed for user's convenience. Easy set up by intuitive screen. Provides multi temperature monitoring screen.

	<p>Login View</p> <p>'Quick Start' button available without Log-in. The security can be managed by Log-in function.</p>		<p>Temp. Display type choice view</p> <p>By Bar View / Text View / Digital View / Trend View / Picture View / It is possible to choose the screen you want and make use of it.</p>
	<p>Main View</p> <p>Easy to use temperature set up and mold data searching by only one button. Timer function added.</p>		<p>Timer Set-up View</p> <p>Timer is composed of 16 channels can operate as three mode (A, B or C mode) which user wants.</p>

Dimensions

Unit : mm

