

BOLD3

Easy To Use

- / Integrated control with high brightness Blue LCD (240X128) (Max. 12 Zone)
- / Easy and intuitive MMI with nine push buttons
- / Operating condition display with two color(Blue, Red) LED

Innovative Bold Style Design

- / Compact size compared to the number of maximum zone
- / Bumper cover efficiently protects controller from external collision
- / Rugged Bold style design
- / Stylish Display with Black high-glossy panel

Precision Control

- / High precision PID Control suitable for various injection conditions
- / Self tuning detecting heater characteristics

Safety

- / High reliability hardware enhanced overvoltage protection
- / Total 18 kinds of Safety self-diagnostic function



www.yudo.com

BOLD3
TEMPERATURE CONTROLLER
HOT RUNNER SYSTEMS

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► We reserve the right to change any specifications without notice.

Ver.1.0 BOLD3 (2013. Aug)

YUDO

English

Design



EXTENSIBILITY in COMPACT SIZE

'Bold3' consist of minimized components to be suitable for small area through integrated 12 zones control. Additionally because bumper cover protects the whole controller, it makes available up to 24zone with double stack.

UNIQUE BOLD STYLE

Bumper cover on steel case protects controller from external shock and it's unique shape makes controller steady and imposing anywhere. Moreover, grip with convenience on moving.

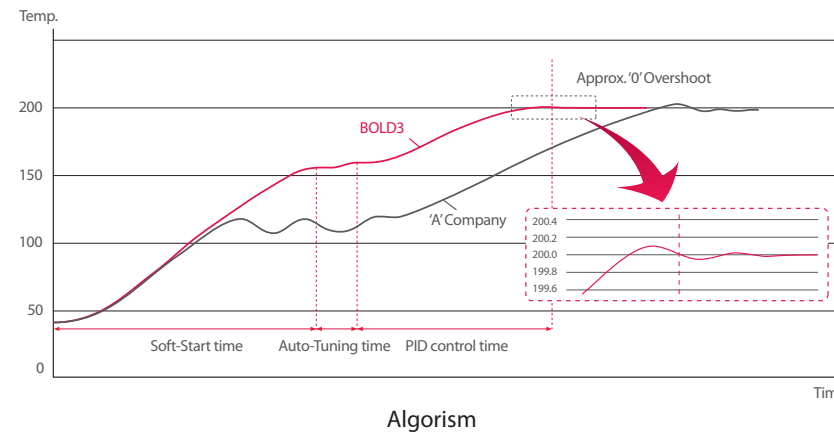


USER INTERFACE with CONVENIENCE and LUXURIOUS

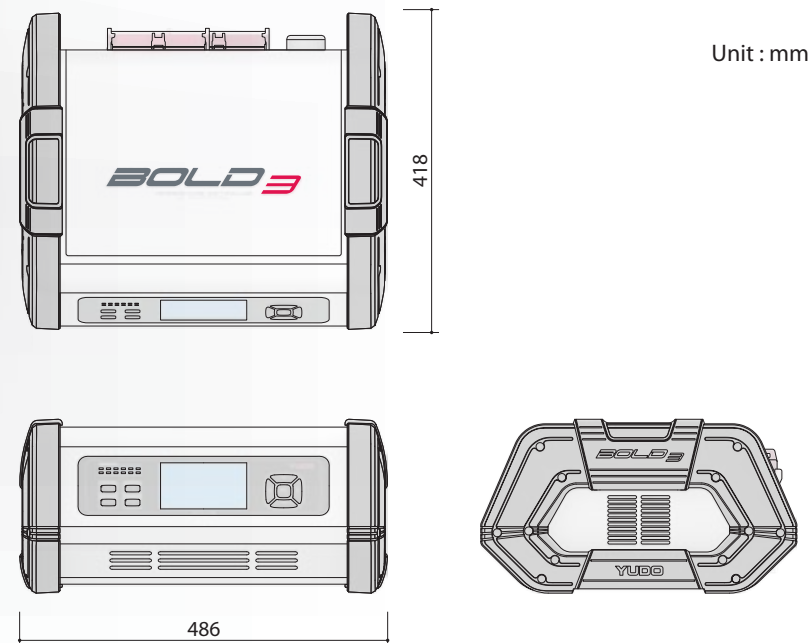
Display interface of Bold3 was adapted with high brightness Blue LCD on the slope looking at user and easy key arrangement and LED display the condition of each zone. Black high Glossy differentiated with other suppliers upgrade customer's dignity.

Function

- / Easy check the status of controller with two color (Blue, Red) LED
- / Run/stop, standby, boost function by hot key
- / Operator and Administrator mode applied for security
- / Soft-Start function protects heater and extend the life time
- / Prevention of control components damage through overheating monitoring
- / Multi language support (Korean, English)



Dimensions



Specifications

HMI	LCD	240X128 GLCD
	LED	2 Colors(Blue & Red) 12 points
	Key	Tact Switch 9 points

Input	Zone	4, 6, 8, 12 Zone (Classification by Model)
	Control range	0~400°C
	Scan Rate	100 ms
	Scan Accuracy	±0.3% of FS
	Display Resolution Limit	0.1°C or 1°C
	Compensable Temperature variation	± 2.0°C

Output	Zone	4, 6, 8, 12 Zone (Classification by Model)
	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 period of renewal	15A / Zone(Max), 50A / BOLD3 (Max)

Environment	Operating Temperature	0 ~50°C
	Operating Humidity	20 ~ 90% RH (Non-condensing)
	Storage Temperature	-10 ~ 60°C
	Insulation Resistance	500VDC, over 20MΩ (Power supply - other terminal)
	Permissive Signal Resistance of T.C	Less than 250Ω
	Withstand Voltage	1,500VAC 50/60Hz 1min (Power supply - other terminal)
	Vibration Resistance	10 ~ 55Hz, Bandwidth 0.75mm, 3 directions 4 swings, 5 min/swing
	Warming-up Time	Over 30 min

Power	Voltage	3phase 4wire 380V (±10%) or 3phase 3wire 220V (±10%)
	Rated frequency	50/60Hz
	(Electric) Power Consumption	13.5W (12 Zone, Max)

Data communication	Protocol	EIA-RS485
	Max. number of connection	31 set
	Communication Method	Half - duplex 2 wire
	Communication Speed	19,200 bps
	Communication Distance	About within 1.2Km

Other detail	Electric Detection	0.0 ~ 20.0A
	Electric Detection Degree	±0.1A
	Radiator Temperature Detection	0.0 ~ 100.0°C
	Radiator Temperature Degree	±3°C
	Radiator Break Temperature	85 ± 3°C
	Fuse Rating	250VAC, 20A
	Safety Relay	250VAC, 16A