



BOLD3

TEMPERATURE CONTROLLER
HOT RUNNER SYSTEMS

YUDO

Specifications

HMI	LCD	240 x 128 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-120, 50Hz-100 resolutions
	Output Capacity	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, 5min/swing
	Warming-up Time	Over 30min.
	Power	Voltage
Rated Frequency		50/60Hz
(Electric) Power Consumption		48W (12 zone, Max., No-load condition)
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

YUDO
Consilience Technology

YUDO INC. (USA) | 33875 Capitol 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 South 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 BOLD3 { 2014. December }

BOLD3

Easy to use

- Integrated control with high brightness Blue LCD (240 x 128) (Max. 12 zone)
- Easy and intuitive MMI with 9 keys
- Display operating condition by 2 colors (Blue, Red) LED

Innovative bold style design

- Compact size comparing to the number of maximum zones
- Apply Bumper-type cover for external damage protection
- Bold style design
- Stylish Black High-Glossy display control panel

Precision control

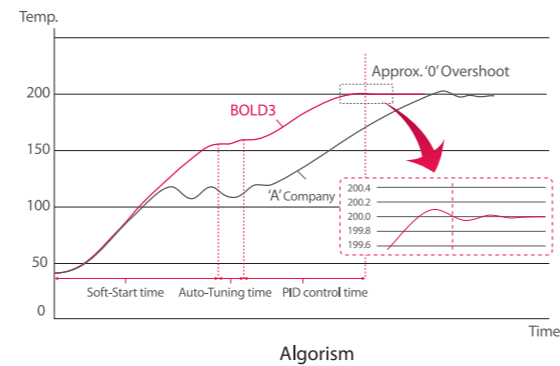
- High precision PID Control suitable for various injection conditions
- Self Tuning (Quick/Full) function detecting features of heater

Safety

- High reliability hardware enhanced overvoltage protection
- Total 18 kinds of self-diagnosis for safety

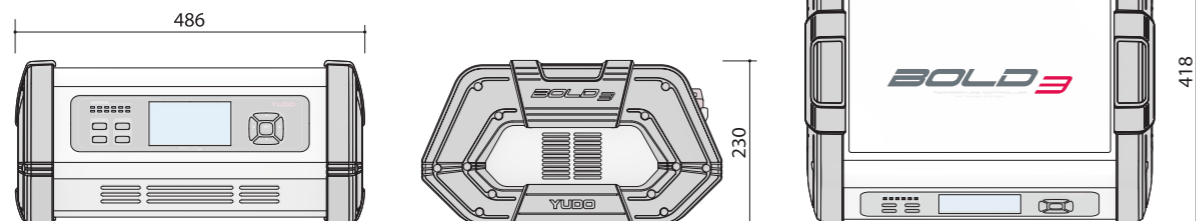
Function

- _ Check operating condition easily by 2 colors(Blue, Red) LED
- _ Use Hot Key for Run/Stop, Standby, and Boost functions
- _ Divide setting menu by User and Administrator for security reasons
- _ Soft-Start function for protection and lifespan extension of heater
- _ Prevent damage through overheating monitoring of control components
- _ Support multiple languages (Korean, English, etc.)



Dimensions

Unit : mm



UNIQUE BOLD STYLE

Bumper cover on steel case protects controller from external damage and its unique shape makes sturdy and imposing impression. It also provides handle grip for easy moving.



COMPACT SIZE TO EXPANDABILITY

'BOLD3' achieves minimization of internal components through integrated control of 12 zone for easy use in limited injection space. Moreover, it has expandability that can be double-stacked up to 24 zone thanks to interlocking structure of bumper cover.



USER INTERFACE OF CONVENIENT AND LUXURIOUS

Display control panel of 'BOLD3' has large high brightness Blue LCD on inclined plane towards user, easy key layout, and LED indicating operating condition by zones. In addition, differentiated Black High-Glossy Panel will improve dignity of your esteemed company.