

HOTRUNNER CONTROLLER

model S2000

Simple
Tough
Stability



Simple

Easy to operate as the **Windows** and available to set the molded condition with wide screen.

Easy to have maintenance with PLC (Programable controller) instead of using terminal block for the connection.

It has memory function for three different steps for the start up.

It makes final production parts with the final molding condition automatically.

Tough

Designed for the perfect noise protection for the CE (Mark) standard.

Light isolation type sensors are installed to input circuit.

Available to keep fixed setting condition for the sensor burnt out problem.

Stability

The repeatable condition setting is available with the closed loop current control system and the adjustable voltage control circuit under unstable voltage condition.

Optical fiber telecommunication systems are using for the stable communication without any noise problems on this controller.

When some of problems occur on our hot-runner system or other equipment, this controller can be stopped automatically with the function of watching system.

It makes stable production line without unqualified parts.

12.1" size TFT Display (As an Option)



6" size Display(Standard)



Back side of Controller



● Basic function

Memory function. (24 molds condition)	Starter function.	2 Color molding function
Interlock function.	Start up function.	Tip time independent function
2 steps heat up function.	Soft start function.	Valve control function (4 zones)
Trouble detection function.	Key-lock function	Password function
Sensor selecting function.	Out-put control function.	

Specification of S2000 controller

Controllable Probes	D-type Probe,B-type Probe, Other type of Spear probe (TP-type) SVP, SVY Other Valve system (VP-type) SI- type probe (NP-type)
Number of control Zones	Probe: 4 to 128 Valve; 4 to 128 Manifold: 2 to 32
LCD screen	6 "Black and white liquid crystal display with touch panel 12.1 " TFT color liquid crystal display with touch panel9 (As an option)
Trouble detection	Temperature watch, Sensor burnt out detection, Reversed connect detection Sensor matching detection, Heater burn our detection, Fuse burn out and OCP detection, Manifold heater current watch
Alarm (Electrical buzzer)	Trouble alarm (Flicker alarm / 75dB) Temperature ready alarm (Horo-horo buzzer / 70dB) Tip On alarm (Horo-horo buzzer / 70dB)
Tip timer on signal Input voltage	Tip timer start signal: DC12 to 30V or AC100 to 200V Input, Valve timer start signal: DC12 to 30V or AC100 to 200V Input (VP-type)
Digital I/O	Out put contact: Alarm signal, Temperature ready signal, Interlock signal In put contact: Temperature ready signal for other equipment, Trouble signal for other equipment
Interface for air unit (VP-type only)	DC24V Out put: Solenoid for valve x 4 points Contact In put: Air pressure down signal
Signal tower . .	Red: Trouble / Yellow: Temperature ready / Green: Molding (As an option)
Interface for PC. .	LAN (10BASE-T) (As an option)
Analysis capacity of in put temperature.	0.25 Deg. C
Sampling speed. .	500ms (Temperature in put .Temperature control)
Power source. .	AC200V/ 220V/ 240V, 50/60Hz
Dimensions. .	400(W)×360(D)×800(H) (Up to 8TP4) 900(W)×450(D)×1170(H) (Up to 16TP4)
O u t l o o k s . .	Caster.with eye-bolt.
A c c e s s o r y . .	Cable for timing signal (Contact point in put or Voltage in put)

Method control

Type	Method of control	Controllable probes
TP	Closed-loop with current control Tip and Body	D-type probe,B-type Probes Other type of Spear probe
VP	Soft pulse control method Tip and Body	SVY,SVP Other valve system
NP	Current control Tip Soft pulse control (Hot block)	SI-type probe

● Options

Protection circuit : When the out put element like SSR burn out, show up the trouble on the monitor and stop the out put power.

Signal tower : Show up trouble / temperature ready / molding condition with red / yellow / green lights.

Short circuit breaker switch: Detect the short circuit for heaters, and turn off the power.

PC connection : Available to connect with personal computer, and to show temperature and current.

Wide size color LCD: 12.1" color liquid crystal display.

(Available to show 16 zones for the probe and 8 zones for the manifold on the display)

Switching box : Available to control for the manifold heat up and the tip heat up with this switch.