

6600 1/16 DIN Controller with Heater Break Alarm

- Heater Break Alarms reduces scrap and improves quality. Detection of heater loss prior to production problems.
- Quick Transfer allows for ultra-easy setup of Heater Break Alarms.
- Plug and Play Technology allows field upgrades.
- Configuration directly from PC for fast and repeatable configurations.
- Two Auto-tune algorithms: Pre-tune plus Self-tune.
- Four Outputs available.



The 6600 is a 1/16 DIN controller that has been designed specifically to provide quality process control for the Plastics Extrusion Market.

This control features a special Heater Break Alarm Function which works similar to an amp meter, but alerts the operator to heater failures when they occur and prior to production problems. Quick Transfer is a one shot operation which automatically sets the alarm condition for the heater break and is based on the nominal current value. Quick Transfer allows for the automatic entry of setpoints for the heater break alarm. In addition, the Auto/Manual key can be configured for fast access to display amps or process temperature by a single key stroke.

Soft Start prevents premature heater failure due to high levels of moisture in heaters at start-up. Soft Start is included on this control, and is used to dry heaters out prior to production. Soft-start is used in injection molding hot runner and other cartridge heater applications.

The 6600 controller incorporates our advanced tuning algorithms, with selectable pre-tune and self-tuning. The pre-tune is used on start-up and is a one-step tuning algorithm designed to get you to setpoint fast with self-tuning being enabled near setpoint and normal operating conditions to control overshoot. The self-tune is a continuous tuning algorithm or sometimes referred to as *adaptive tuning*. This control can also be manual fine tuned for specific applications.

This controller loaded up can have 4 outputs, 1 sensor input, 1 current transformer input, and RS-485 Communication. Combining all these features makes the West 6600 one of the most powerful controllers in its class.



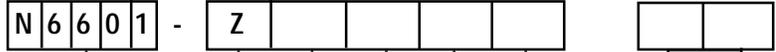
6600 Brief Specs:

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Inputs:	Thermocouple:	J, T, K, N, L, R, S, B
	RTD:	Pt 100
	Dual Setpoint:	Voltage free contact or TTL
Output:	Control Output:	Relay- SPDT 2A at 120/240V AC SSR: >10V DC into 1 KOhm minimum Triac- 1amp @ 40°C, Derate to 1/2amp @ 80°C
	Alarms Option:	1 or 2 alarms plus Heater Break Alarm
	Recorder Output:	2A 120/240V AC or SSR > 10V into 500 Ohm minimum 0-5V and 0-10V Retransmission SP/PV 500 ohm min
	Communications:	0-20mA and 4-20mA 500 ohm min. RS-485 2 wire-MODBUS or West ASCII
Control and: Features	Tuning:	Pre-Tune and Self Tune Auto/Manual with "bumpless" transfer
	Proportional Band:	.5% to 999.9% of input span
	Auto Reset:	1 second to 99 minutes 59 seconds and OFF
	Manual Reset (Bias): Rate:	0 to 100% 0 to 99 minutes 59 seconds
Operating and: Environmental	Accuracy:	±0.25% of span ±1 LSD
	Ambient Temperature:	0°C to 55°C (Operating) -20°C to 80°C (Storage)
	Supply Voltage:	90 to 264V AC 50/60Hz Optional 20-50V AC, 22-65V DC
	Power Consumption:	4W Maximum
Dimensions and: Panel Cut Out	Panel Cut-Out:	1/16 DIN - 45mm X 45mm
	Unit Dimensions:	48mm High X 48mm Wide X 110mm Deep

6600 Order Matrix:

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Model

Standard Configuration

Input Type

- 1 - 3 Wire RTD
- 2 - Thermocouple

Output 1 (Heat Output)

- 1 - Relay
- 2 - DC for SSR
- 8 - Triac

Output 2 (Cool Output/alarms and/or Heater Break)

- 0 - Not fitted
- 1 - Relay
- 2 - DC for SSR
- 8 - Triac
- 9 - Dual Relay

Output 3 (Alarm 1 or Recorder O/P)

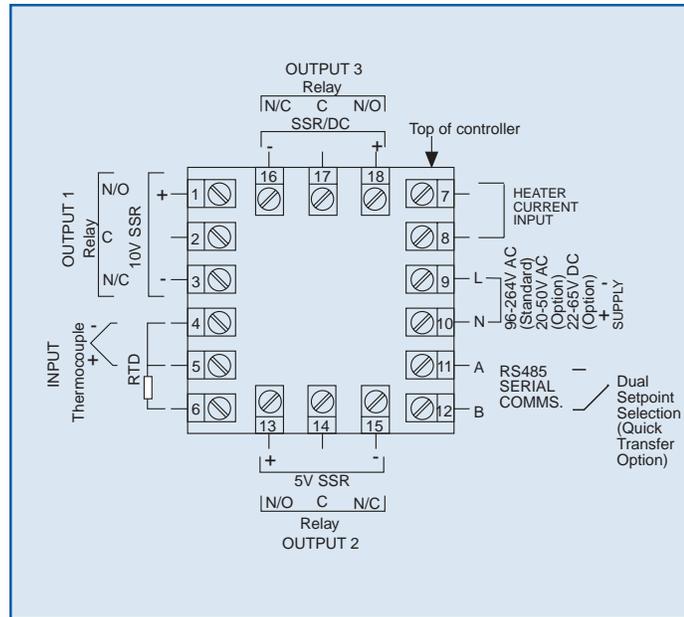
- 0 - Not fitted
- 1 - Relay
- 3 - DC 0-10V
- 4 - DC 0-20mA
- 5 - DC 0-5V
- 7 - DC 4-20mA
- 8 - Triac

Options

- 10 - RS-485 Serial Communication
- 02 - 24VAC/DC Power Supply
- 12 - RS-485 Serial Communication and 24VAC/DC Power Supply
- 30 - Dual Setpoint
- 32 - Dual Setpoint and 24VAC/DC Power Supply

6600 Wiring Diagram and Notes:

Wiring Diagram:



Notes:
