

# Product Specification

### West 8600 1/8 DIN Plastics Controller



The West 8600 temperature controller can measure and display the heater current. Special heater break alarms give early warning of element failure, to protect equipment and product. A soft-start feature is available for process warm up.

- Heat/Cool operation
- Process & Heater alarms
- Soft Start
- Ramping setpoint
- **. 71**2 ii.
- Current "Quick Transfer"
- Current Display
- RS485 Comms
- PC configuration



#### **Technical Data**

#### **Features**

Control Types Soft Start Auto/Manual

**Output Configuration** 

Process Alarm Types Heater Break Alarm Types

Human Interface PC Configuration

#### Input

Thermocouple

RTD Impedance Accuracy Sampling

Sensor Break Detection

Heater Current
Outputs & Options

Ctrl & Alarm Relays

Control SSR Outputs Solid State (Triac) Outputs Retransmit Outputs Communications Dual SP/Current Transfer

#### **Operating & Environmental**

Temperature & RH
Power Supply
Front Panel Protection
Approvals and Certification

Full PID with Pre-tune, Self-tune, Manual Tuning, or On-Off control. Heat only or heat & cool

Allows lower SP value and cycle time during the process start-up phase

Selectable from front panel, with bumpless transfer. Instant power-off feature also available as standard

Up to 4 total. Max 2 for control (Heat & Cool), max 3 for Alarms,

max 1 for retransmit Process value or Setpoint

Process high, process low, SP deviation, band, logical OR

Current low or high, (in absolute amps or % of nominal current) plus contactor/thyristor short circuit

4 button operation, dual 4 digit 10mm & 8mm high LED displays, plus 3 LED indicators
Off-line configuration from serial port to dedicated config socket (comms option not required)

J, K, R, S, T, B, L, & N.

3 Wire PT100,  $50\Omega$  per lead maximum (balanced)

>100MQ

+/- 0.25% of input span +/- 1 LSD (T/C CJC better than 0.7°C)

4 per second, 14 bit resolution approximately

<2 secs, control O/P's turn off, high alarms activate for thermocouple ranges, low alarms activate for RTD

0-50mA secondary from external current transformer. Display is scaleable up to 100 amps

Contacts \*SPDT 2Amp resistive at 240V AC,>500,000 operations.\*Dual relay=SPST for O/P's 2 & 4

Drive capability, output 1= >10V DC into  $500\Omega$  min, output 2= >4.3V DC into  $250\Omega$  min 0.01 to 1 Amp AC 20 to 280V, 47 to 63Hz

0-20/4-20mA into 500 $\Omega$  max, 0-10/0-5V into 500 $\Omega$  min. Accuracy typically +/- 0.25%

2 Wire RS485, 1200 to 9600 Baud, Modbus or West ASCII (Selectable)

Volt free or TTL input. Selects between 2 setpoints or quick transfer of heater current as nominal value

0 to 55°C (-20 to 80°C storage), 20% to 95%RH non-condensing

100 to 240V 50/60Hz 7.5VA (optional 20 to 50V AC 7.5VA/22 to 65V DC 4W)

IEC IP66 (Behind panel protection is IP20)

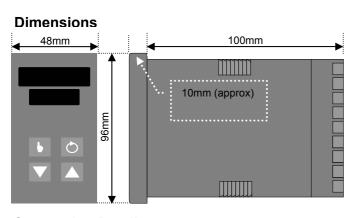
CE, UL & ULc

West Instruments

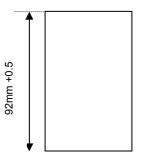
The Hyde Business Park Brighton BN2 4JU. UK

Tel: +44 (0) 1273 606271 Fax: +44 (0) 1273 609990 e-mail: info@westinstruments.com

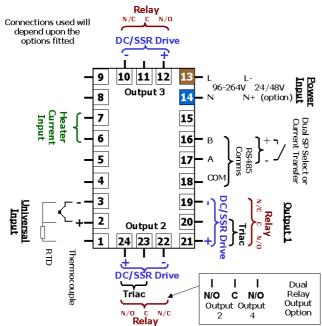
Web: www.westinstruments.com



## Cut out 45mm +0.5



#### **Connection Details**



#### **Field Reconfiguration**

Configurable Thermocouple or RTD, no extra parts required

#### Output 1

Type is fixed as Relay/SSR (selectable) Output 2 (and 4)

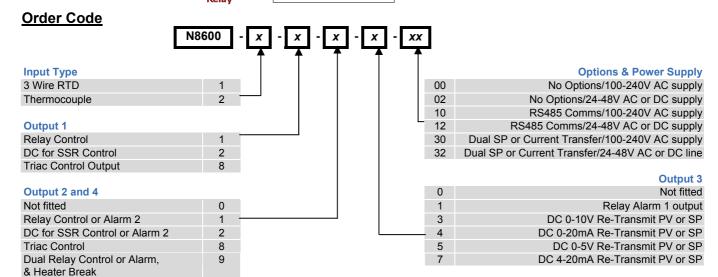
Configurable as Cool O/P or Alarm via plugin Relay, SSR, Triac or DC Linear modules. A Dual Relay card is available which allows Cool O/P or Alarm on output 2 plus Heater Break Alarm on output 4

#### **Output 3**

Configurable as Alarm via plug-in Relay module, or retransmit using DC Linear module

#### **Option Slot**

Configurable as RS485 comms or dual setpoint selection/current transfer, via plugin modules



#### **Current Transformers:**

25 Amp Part No: 85258 50 Amp Part No: 85259 Part No: 85260 100 Amp

In accordance with our policy of continuous improvement, we reserve the right to change specifications from those shown in this document.

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