# West 8600 1/8 DIN Controller with Heater Break





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
- 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

RTD

Thermocouple

**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)

+/- 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)

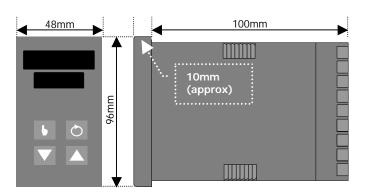
Volt free or TTL input. Selects between 2 setpoints or quick transfer of heater current as nominal value

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

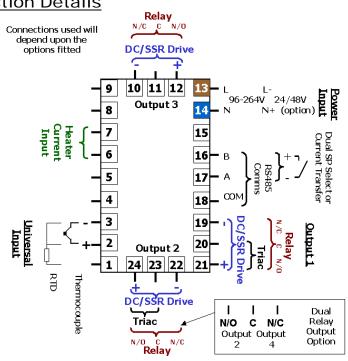
90 to 264V 50/60Hz (optional 20 to 55V AC/22 to 65V DC), approx 4 Watts

IEC IP66 (Behind panel protection is IP20)

CE, UL & ULc



# **Connection Details**



# 45mm +0.5

# Field Reconfiguration

# Input

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 plug-in 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

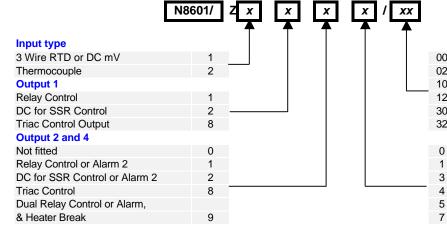
# **Output 3**

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 plug-in modules

# Order Code



0	No Options/90-264V AC supply
2	No Options/24-48V AC or DC supply
0	RS485 Comms/90-264V AC supply
2	RS485 Comms/24-48V AC or DC supply
0	Dual SP or Current Transfer/90-264V AC supply
2	Dual SP or Current Transfer/24-48V AC or DC
	Output 3
)	Not fitted
l	Relay Alarm 1 output
3	DC 0-10V Re-Transmit PV or SP
1	DC 0-20mA Re-Transmit PV or SP
5	DC 0-5V Re-Transmit PV or SP
7	DC 4-20mA Re-Transmit PV or SP

**Options and Power Supply** 

Current Transformers			
25 Amp	Part Number	M9610-A25	
50 Amp	Part Number	M9610-A50	
100 Amp	Part Number	M9610-A100	

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