West 6600 1/16 DIN Controller with Heater Break





The West 6600 provides high quality control in applications requiring a heater break function or soft-start for process warm up. Heater current can also be displayed, removing the need for a separate ammeter.

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



Technical Data

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

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

Auto/Manual Selectable from front panel, with bumpless transfer. Instant power-off feature also available

as standard

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

max 1 for retransmit Process value or Setpoint

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

Heater Break Alarm Current low or high, (in absolute amps or % of nominal current) plus contactor/thyristor

Types short circuit

Human Interface 4 button operation, dual 4 digit 10mm & 8mm high LED displays, plus 3 LED indicators PC Configuration

Off-line configuration from serial port to dedicated config socket (comms option not required)

Input

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

RTD 3 Wire PT100, 50Ω per lead maximum (balanced)

Impedance $>100M\Omega$

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

Sampling 4 per second, 14 bit resolution approximately

Sensor Break Detection <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

Outputs & Options

Control SSR Outputs

Heater Current

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

Drive capability, output 1>10V DC into 500Ω min, output 2>4.2V DC into 250Ω min

Solid State (Triac) 0.01 to 1 Amp AC 20 to 280V, 47 to 63Hz Outputs

Retransmit Outputs 0-20/4-20mA into 500Ω max, 0-10/0-5V into 500Ω min. Accuracy typically +/- 0.25%

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

Dual SP/Current Volt free or TTL input. Selects between 2 setpoints or quick transfer of heater current as

nominal value Transfer

Operating & **Environmental**

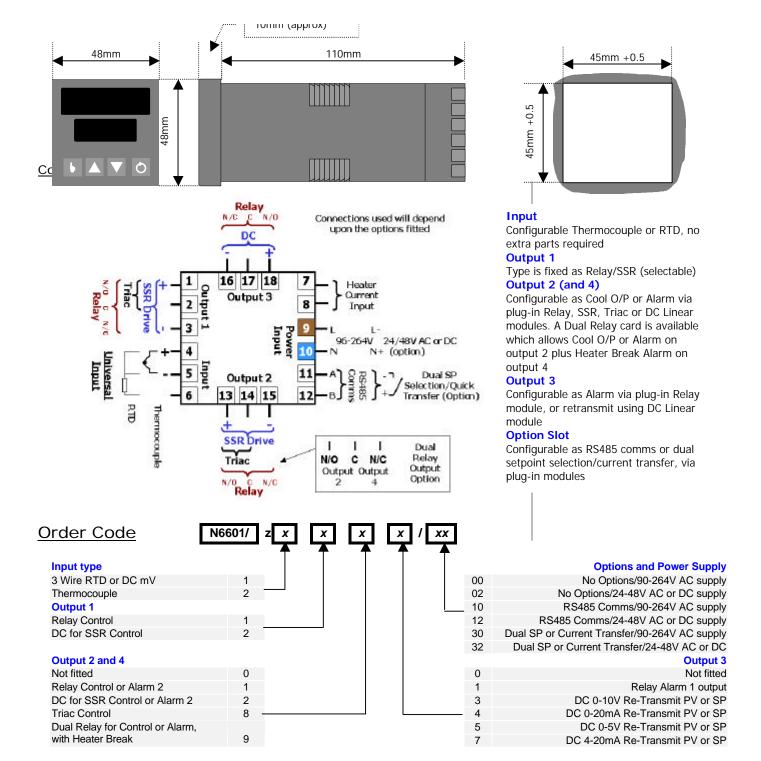
Temperature & RH 0 to 55°C (-20 to 80°C storage), 20% to 95%RH non-condensing

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

Front Panel Protection IEC IP66 (Behind panel protection is IP20)

CE, UL & ULc

Approvals and Certification



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

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