

# West 8200 1/8 DIN Controller with Fuzzy Logic



The West 8200 PID controller's fuzzy logic algorithm works in the background to reduce overshoot and improve settling times on startup, setpoint changes and load disturbances.

- Heat/Cool operation
- Two process alarms
- Loop alarm
- RS485 comms

- Ramping setpoint
- Auto-tuning & fuzzy logic
- Remote setpoint input
- PC configuration



## **Technical Data**

## Features

Control Types

Auto/Manual Output Configuration

Alarm 1 & 2 Types Human Interface PC Configuration Input Thermocouple

RTD DC Linear

Impedance Accuracy Sampling Sensor Break Detection

### **Outputs & Options**

Control & Alarm Relays Control SSR Outputs Solid State (Triac) Outputs Control DC Outputs Retransmit Outputs Communications Dual Setpoint Selection Remote Setpoint Input

### **Operating & Environmental**

Temperature & RH Power Supply Front Panel Protection Approvals and Certification

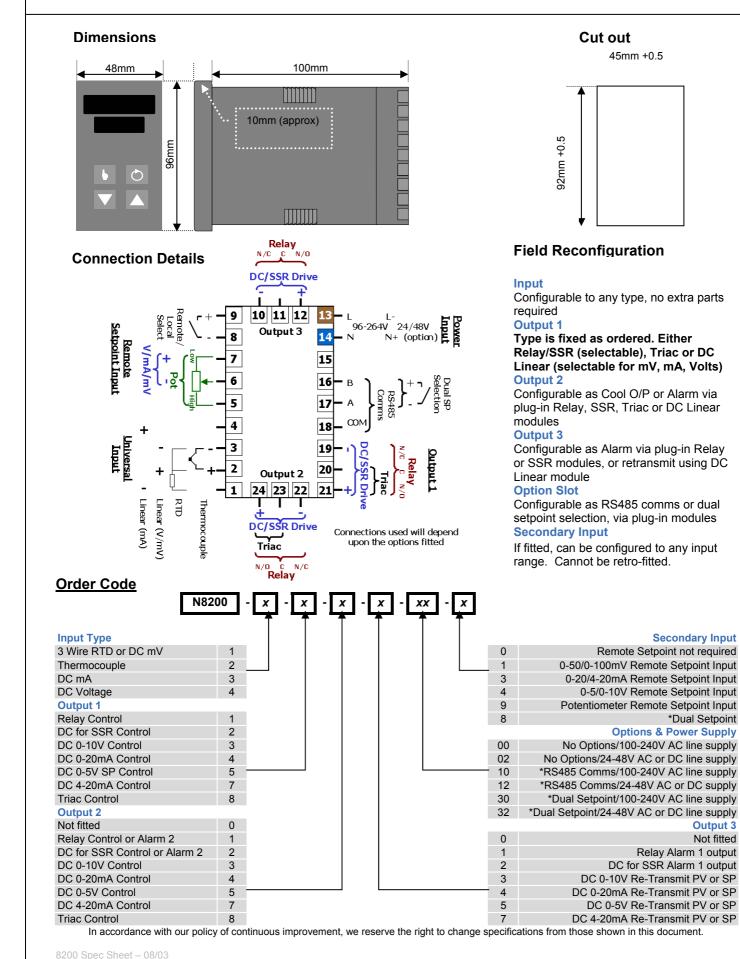
PID with fuzzy logic. Pre-tune, Self-tune, Manual Tuning, or On-Off control. Heat only or heat/cool Selectable from front panel, with bumpless transfer Up to 3 total. Max 2 for control (Heat & Cool), max 2 for Alarms, max 1 for retransmit Process value or Setpoint Process high, process low, SP deviation, band, logical OR and hysteresis. Also 1 loop alarm 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) 0-20/4-20mA, 0-50/10-50mV, 0-5/1-5/0-10/2-10V. Scaleable -1999 to 9999, dec point available >100M $\Omega$  for Thermocouple and mV ranges, 47K $\Omega$  for V ranges and 4.7 $\Omega$  for mA ranges +/- 0.25% of input span +/- 1 LSD (T/C CJC better than 0.7°C) 4 per second, 14 bit resolution approximately <2 secs (except zero based DC ranges), control O/P's turn off, high alarms activate for T/C and mV ranges, low alarms activate for RTD, mA or V ranges Contacts SPDT 2Amp resistive at 240V AC, >500,000 operations Drive capability >4.3V DC in  $250\Omega$  (10V  $500\Omega$  version available) 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 +/- 0.5% 0-20/4-20 mA into  $500\Omega$  max, 0-10/0-5V into  $500\Omega$  min. Accuracy typically +/- 0.25% 2 Wire RS485, 1200 to 9600 Baud, West ASCII Selects between 2 SP's using volt free or TTL input (SP1 = -0.6 to 0.8V, SP2 = 2 to 24V) 0-20/4-20mA, 0-50/0-100mV, 0-5/0-10V or Potentiometer ( $2K\Omega$  min), scaleable, with external volt free or TTL remote/local setpoint selection input 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



West Instruments is a division of Danaher (UK Industries) Ltd. A member of the Danaher Corporation. Registered in England No 2815444 VAT No GB788620583 Registered Office: Danaher House, Parkway One Business Centre, Parkway Drive, Sheffield, S9 4WU

Veeder-Root HENGSTLER