

West 6120 1/16 DIN Easy Use Controller



The West 6120 is a full featured 1/16 DIN controller. Designed for applications requiring protection from operator errors, setpoint adjustment can be locked or limited to a narrow band.

- Tamper proof
- Two process alarms
- Loop alarm
- RS485 comms

- Heat/Cool operation
- Ramping setpoint
- Dual setpoint selection Configuration via PC
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Technical Data

Features

Control Types

Output Configuration

Alarm 1 & 2 Types Human Interface Setpoint Locking 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 Operating & Environmental

Temperature & RH Power Supply Front Panel Protection Approvals and Certification

Full PID with Auto Pre-tune, Self-tune, Manual Tuning, or On-Off control. Heat only or heat/cool mode Up to 3 Total. Max 2 for control (Heat or 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 2 button operation, dual 4 digit 10mm & 8mm high LED displays, plus alarm indicator Front panel setpoint adjustment - Full, limited or none (selectable) Configuration via PC only. Dedicated config socket (controller comms option not required) J, K, R, S, T, B, L, & N. 3 Wire PT100, 50 Ω 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 Ω for Thermocouple and mV ranges, 47K Ω for V ranges and 4.7 Ω 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 >4.2V DC in 1K Ω (10V 500 Ω version available) 0.01 to 1 Amp AC 20 to 280V, 47 to 63Hz 0-20/4-20mA into 500 Ω max, 0-10/0-5V into 500 Ω min. Accuracy typically +/- 0.5% 0-20/4-20mA into 500 Ω max, 0-10/0-5V into 500 Ω min. Accuracy typically +/- 0.25% 2 Wire RS485, 1200 to 9600 Baud, West ASCII (Modbus Optional) Selects between 2 SP's using volt free or TTL input (SP1 = -0.6 to 0.8V, SP2 = 2 to 24V) 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



DC 4-20mA Control

DC 0-10V Control

DC 0-5V Control

Triac Control

DC 0-20mA Control

DC 4-20mA Control

Relay Control or Alarm 2

DC for SSR Control or Alarm 2

Triac Control

Output 2

Not fitted

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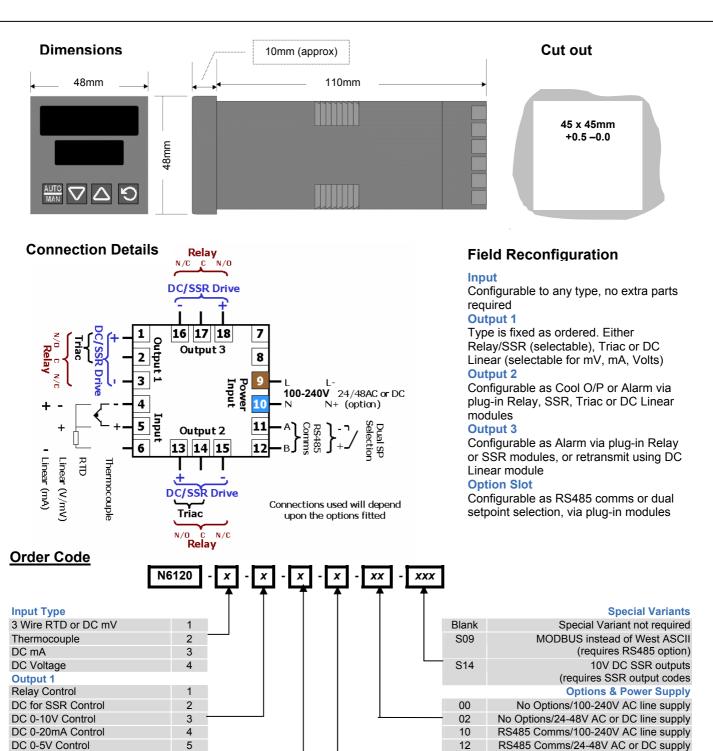
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In accordance with our policy of continuous improvement, we reserve the right to change specifications from those shown in this document. 6120 Spec Sheet – 08/03

PC Configuration Software: Runs on Windows 95/98/2000. Part number GCON-1000 PC Configuration Sofware (2): Runs on DOS or Windows 95/98. Includes connection cable. Part Number M9997-A05011

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Dual Setpoint/100-240V AC line supply

Dual Setpoint/24-48V AC or DC supply

DC 0-10V Re-Transmit PV or SP

DC 0-5V Re-Transmit PV or SP

DC 0-20mA Re-Transmit PV or SP

DC 4-20mA Re-Transmit PV or SP

Output 3

Not fitted

Relay Alarm 1 output