

Product **Specification**

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



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

Power Supply Front Panel Protection Approvals and Certification

Temperature & RH

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, 50Ω 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 $1K\Omega$ (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)

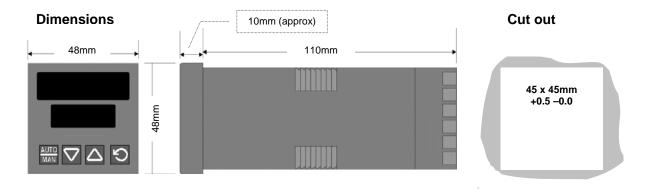
0 to 55°C (-20 to 80°C storage), 20% to 95%RH non-condensing

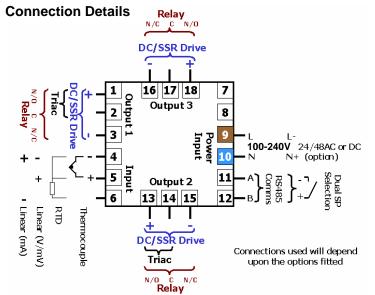
100 to 240V 50/60Hz 7.5VA (optional 20 to 50V AC 7.5VA/22 to 65V DC 4W)

IEC IP66 (Behind panel protection is IP20)

CE, UL & ULc







Field Reconfiguration

Input

Configurable to any type, no extra parts required

Output 1

Type is fixed as ordered. Either Relay/SSR (selectable), Triac or DC Linear (selectable for mV, mA, Volts)

Output 2

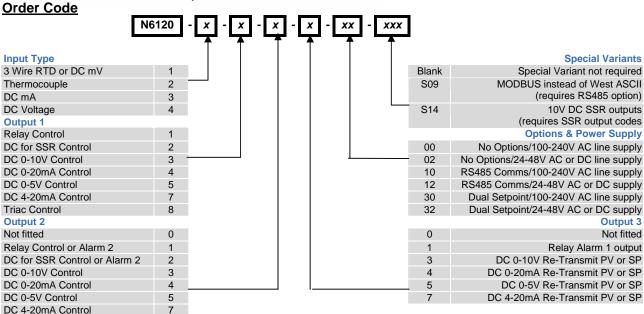
Configurable as Cool O/P or Alarm via plug-in Relay, SSR, Triac or DC Linear modules

Output 3

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

Option Slot

Configurable as RS485 comms or dual setpoint selection, via plug-in modules



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

In accordance with our policy of continuous improvement, we reserve the right to change specifications from those shown in this document. 3120 Spec Sheet – 08/03



Triac Control







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