

Product **Specification**

West 6400 1/16 DIN Profiler Controller



The 6400 is one of the most powerful profilers of its size available. It features our proven RaPID fuzzy logic control algorithm, for faster, more accurate control. Four programs can be held in memory.

- Free-form programming
- Delayed start
- Guaranteed soak
- Power fail recovery
- Event/Profile active outputs
- Remote start
- Modbus comms





Technical Data

Features

Control Types
Auto/Manual
Output Configuration
Alarm 1 & 2 Types
Human Interface
PC Configuration

Profiles

Number of Programs

Delayed Start Guaranteed Soak Program Cycles Ramp Rate Definition Power Loss Recovery

Input

Thermocouple

RTD DC Linear Impedance Accuracy Sampling

Sensor Break Detection

Outputs & Options

Control/Alarm/Event Relay

DC for SSR

DC Control/Retransmit

Solid State (Triac) Remote Run-Hold Communications

Temperature & RH

Operating & Environmental

Power Supply Front Panel Protection Approvals and Certification PID with Pre-tune and RaPID fuzzy logic, or Manual Tuning. Heat or Heat/Cool, applications

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 PV or SP $\,$

Process high, process low, setpoint deviation and band

4 buttons, 10mm & 8mm high LED's, plus run-hold, tune, event & profile/control status LED's

Off-line configuration & profile editing via config socket (comms option not required)

4, each with 16 free-form segments (Ramp/Dwell/End). Max segment length 99 hours 59 minutes

Max 99 hours 59mins delay from initiation to program start

Holds program if PV is outside of specified hold band during dwell segments.

1 to 9999 or infinite (continuously re-starts program at end)

Either ramp rate, or time to final setpoint

Hot (continue profile from point of power fail) or Cold (end profile and return to controller mode)

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

(*low for RTD inputs)

Contacts SPDT 2Amp resistive at 240V AC, >500,000 operations

Drive capability >4.2V DC in 1K Ω minimum (10V 500 Ω version available)

0-20/4-20mA into 500 Ω max, 0-10/0-5V into 500 Ω min. Accuracy, Control OP +/- 0.5%,

Retransmit +/- 0.25%

0.01 to 1 Amp AC 20 to 280V, 47 to 63Hz

Volt free or TTL input (Hold = -0.6 to 0.8V or contact open, Run = 2 to 24V or contact close)

2 Wire RS485, 1200 to 9600 Baud, Modbus protocol

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)

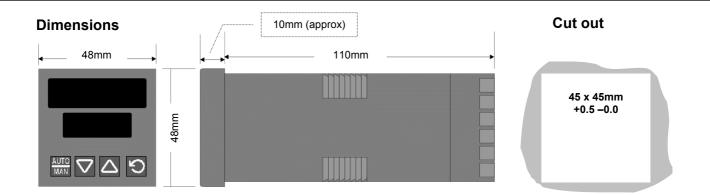
IEC IP66 (Behind panel protection is IP20)

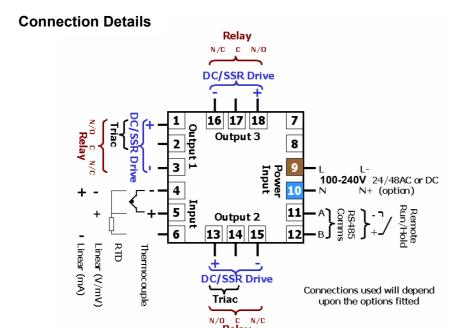
CE, UL & Ulc



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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

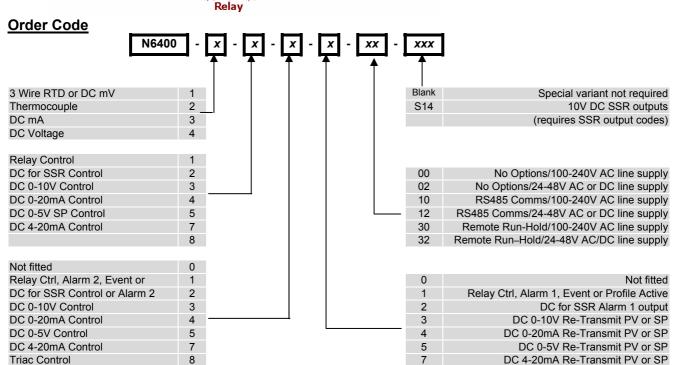
Configurable as Cool O/P or Alarm, Event or Profile Active via plug-in Relay, Cool O/P or Alarm via plug-in SSR module, or Cool O/P only via Triac or DC Linear modules

Output 3

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

Option Slot

Configurable as RS485 comms or remote run-hold, via plug-in modules



In accordance with our policy of continuous improvement, we reserve the right to change specifications from those shown in this document.

6400 Spec Sheet - 08/03





