



6400 1/16 DIN Profiler Controller



Free-form programming

Delayed start

Guaranteed soak

Power fail recovery

Event/Profile active outputs

Remote start

Modbus comms





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.

Specification

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 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, 50 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 for Thermocouple and mV ranges, 47K for V ranges and 4.7 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)</p>

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

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

0-20/4-20mA into 500 max, 0-10/0-5V into 500 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







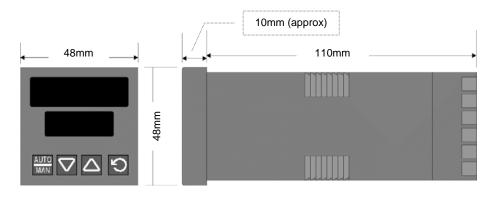
Operating and Environmental

Temperature & RH Power Supply Front Panel Protection Approvals and Certification 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)

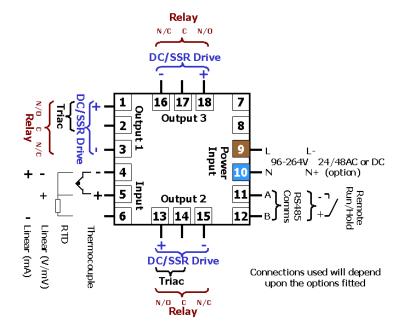
CE, UL & Ulc

Dimensions





Connection Details



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

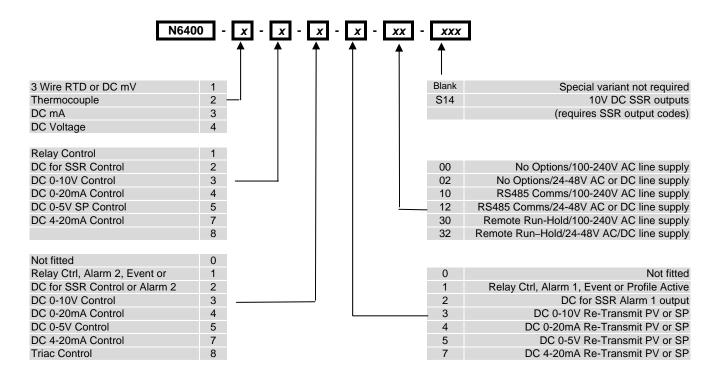
Option Slot

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





Ordering Code



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Brochures and datasheets are available for the complete range of West Control Solutions products, contact your local sales office or visit our website at: www.west-cs.com for more information.

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