



4400 1/4 DIN Profiler Controller



Free-form programming

Delayed start

Auto Hold

Modbus & ASCII comms

Program End/Run relay

Power fail recovery

Self-tuning algorithms

PC support software

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The West 4400 is a powerful Programmer, packed with innovative features to control complex processes. Metal treatment and environmental chambers are typical applications for the 4400.

Specification

Features

Control Types Auto/Manual

Output Configuration Alarm 1 & 2 Types Human Interface PC Configuration Full PID with Pre, Self or Manual Tuning. Heat, Heat & Cool or Valve Motor 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, SP deviation, band, logical OR and hysteresis. Also 1 loop alarm 6 buttons, 13mm & 10mm high LED's, 8 digit message display, plus status LED indicators Off-line configuration, profile editing & tracker, via config socket (comms option not required)

Profiles

Number of programs Auto Hold EOP Relay Delayed start Real Time Clock Option 8, each with 16 free-form segments (Ramp/Dwell/Join/Repeat/End). Max seg. length 99 hrs 59 mins Fully programmable. Holds program if PV is outside of specified hold band.

Fitted as standard. Indicates program running or program ended.

Max 99 hours 59mins delay from initiation to program start

Allows programmed start on specific days, and intelligent power fail recovery

Input

Thermocouple RTD DC Linear Impedance Accuracy Sampling Sensor Break Detection

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)</p>

Outputs & Options

Control & Alarm Relays Control SSR Outputs Control DC Outputs Retransmit Outputs Event Output Option Remote Program Ctrl Communications Contacts SPDT 2Amp resistive at 240V AC, >500,000 operations (EOP relay 5A 240V >100,000)

Drive capability >4.3V DC in 250 (10V 500 version available)

0-20/4-20mA into 500 max, 0-10/0-5V into 500 min. Accuracy typically +/- 0.5% 0-20/4-20mA into 500 max, 0-10/0-5V into 500 min. Accuracy typically +/- 0.25%

4 program segment event relays, contacts SPST 5Amp resistive at 240V AC, >100,000 operations

Volt-free/TTL inputs for Run/Hold, Abort, X60 (mins/secs) and program selection.

2 Wire RS485, 1200 to 9600 Baud, West ASCII and Modbus (selectable)





Operating & Environmental

Temperature & RH

Power Supply

Front Panel Protection

Approvals and Certification

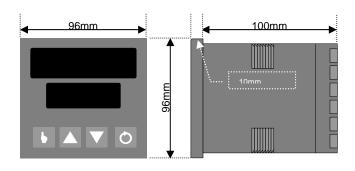
0 to 55°C (-20 to 80°C storage), 20% to 95%RH non-condensing

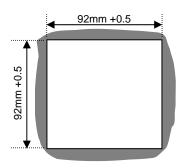
100 to 240V 50/60Hz 7.5VA (optional 20 to 50V AC 7.5VA/22 to 65V DC 4W)

IEC IP66 (Behind panel protection is IP20)

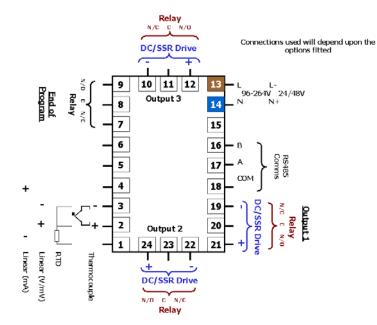
CE, UL & ULc

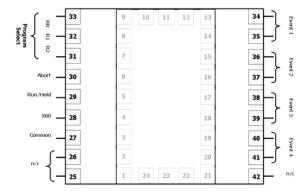
Dimensions





Wiring Connections

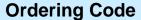


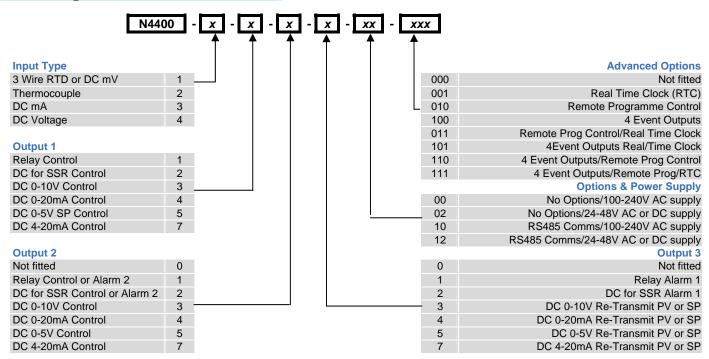












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Brochures and datasheets are available for the complete range of West Control Solutions products, contact your local sales office or visit our website at: www.west-cs.com for more information.

Specifications are subject to change without notice, as a result of continual development and improvement, E&OE



