West 4400 1/4 DIN Profiler Controller





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.

- Free-form programming
- Delayed start
- Auto Hold
- Modbus & ASCII comms
- Program End/Run relay
- Power fail recovery
- Self-tuning algorithms
- PC support software



Technical Data

Features

Control Types Auto/Manual

Output Configuration Alarm 1 & 2 Types Human Interface PC Configuration

Profiles

Number of programs Auto Hold EOP Relay Delayed start

Real Time Clock Option

Input

Thermocouple

RTD
DC Linear
Impedance
Accuracy
Sampling
Sensor Break Detection

Outputs & Options Control & Alarm Relays

Control SSR Outputs
Control DC Outputs
Retransmit Outputs
Event Output Option
Remote Program Ctrl
Communications

Operating & Environmental

Temperature & RH
Power Supply
Front Panel Protection
Approvals and Certification

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)

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

J, K, R, S, T, B, L, & N.

3 Wire PT100, 50Ω per lead maximum (balanced)

 $0-20/4-20 mA,\ 0-50/10-50 mV,\ 0-5/1-5/0-10/2-10 V.\ Scaleable\ -1999\ to\ 9999,\ dec\ point\ available\ -1999\ to\ 9999\ to\ 9999\$

>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)

Contacts SPDT 2Amp resistive at 240V AC, >500,000 operations (EOP relay 5A 240V >100,000)

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

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

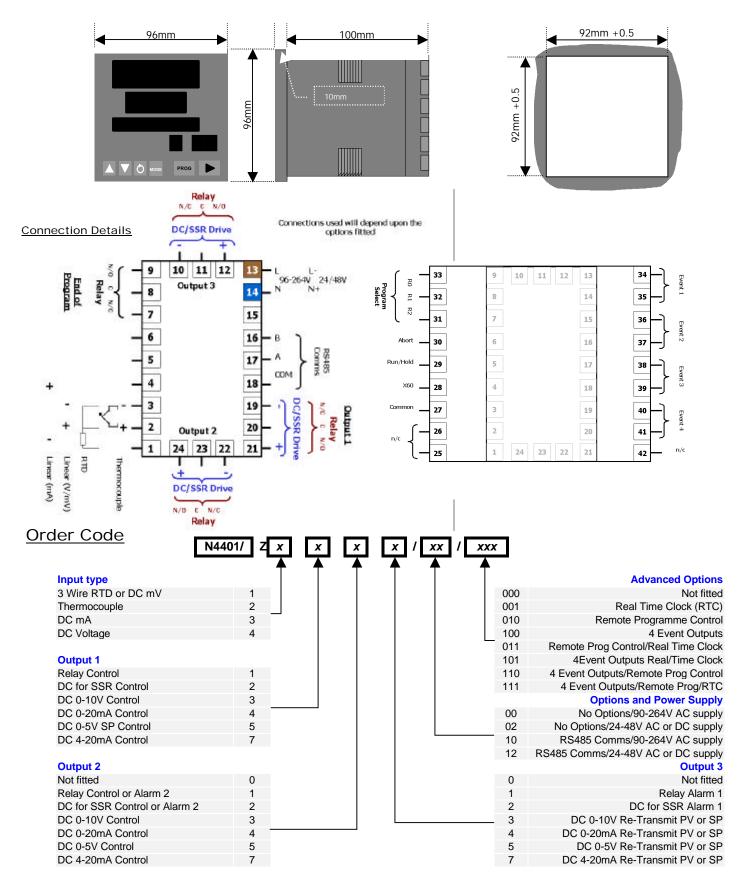
2 Wire RS485, 1200 to 9600 Baud, West ASCII and Modbus (selectable)

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

90 to 264V 50/60Hz (optional 20 to 55V AC/22 to 65V DC), approx 4 Watts

IEC IP66 (Behind panel protection is IP20)

CE, UL & ULc



http://instserv.com



10100 Royalton Rd. Cleveland, OH 44133 USA Tel: (440) 237-3200 • Fax: (440) 237-1744

Toledo, OH area:

417 Tomahawk Dr. Maumee, OH 43537 Tel: (419) 893-3330 • Fax: (419) 893-2151