4400 1/4 DIN Profile Controller

- **Informative Display provide maximum process information at a glance.**
- **Eight programs, of sixteen free format segments.**
- **Programs can be linked for up to 127 segments.**
- **Dedicated configuration port allows configuration directly from PC plus the development, transfer and storage of recipes by dedicated software.**
- **Power failure recovery strategies plus delayed start and real time clock.**
- **Optional four event outputs and six digital inputs.**

NEMA 4

The 4400 is a powerful profile controller which will provide accurate programming control over complex processes. It is easy to program, setup and use, and is packed full of innovative features.

The 4400 has been designed to give the operator more immediate visibility than ever before. At a glance, the programmable displays will show you the measured variable, the setpoint and the parameter being edited, the number of cycles or time remaining, the recipe name and number, also whether the cycle is in a ramp or soak. In short, everything you need to know about your process is displayed.

The 4400 allows you to save up to 8 programs or recipes, with up to 16 segments each. You can join any number of these programs together allowing you to build large complex profiles up to 127 segments. Unlike many other profilers, the 4400 offers you a free choice in programming each segment. (Free Format) For example, you can choose (ramp/ramp or soak/soak) sequences which are often needed for flexible triggering of events.

The 4400 has a special configuration port and dedicated software which enables you to configure directly from a PC, in addition, you can program recipes and store them by names. Any number of recipes can be stored on a PC and downloaded via the configuration port. At all times when a recipe is running, the name of the recipe will be shown in the alpha/numeric display.

The 4400 has the normal 3 outputs for control and alarming plus a slot for RS-485 communication. Optional features include a 4 event relay output card, a 6 digital input card, and a real time clock. Combining all these features makes the 4400 one of the most powerful profilers in its class.

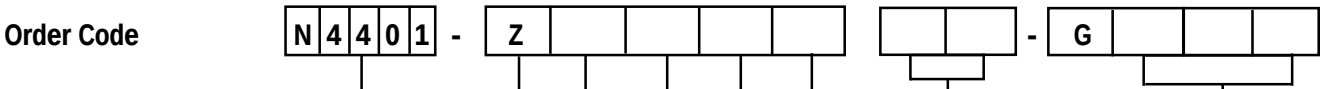
WEST Brand INSTRUMENTS

4400 Brief Specs:

Brief Specs:

Inputs:	Thermocouple:	J, K, R, S, T, B, L, N
	RTD:	Pt 100 3 Wire
	DC Linear:	mA, mV or V
	Calibration	Complies with BS4937, NBS125, IEC584
Output:	Control and Alarm Outputs:	Relay- SPDT 2A at 240V AC > 5 X 10^5 operations
	Control Outputs:	SSR >4.0V DC into 1 K ohm minimum
		Triac- 1amp @ 40°C, Derate to 1/2amp @ 80°C
	DC:	8 bits in 250mS (10 bits in 1 sec. typical >10 bits in >1 sec typical)
	Communications:	RS-485 2 wire
Control and: Features	Tuning:	Pre-Tune and Self Tune
		Auto/Manual with *bumpless* transfer
	Proportional Band:	0.5% to 999.9% of input span and ON-OFF
	Auto Reset:	1 second to 99 minutes 59 seconds and OFF
	Manual Reset (Bias):	0 to 100%
	Rate:	0 to 99 minutes 59 seconds
	Program Facilities:	Programs: 8, each with free form segments
	Length:	Adjustable in the range 1 to 16 segments
		Programs cascadeable maximum length 121 segments
	Segment Types:	Ramp, dwell, join, repeat or end
	Cycling:	1 to 9999, infinite
	Delay Start:	0 - 99:59
Operating and: Environmental	Accuracy:	±0.25% of input span
	Ambient Temperature:	0°C to 55°C (Operating)
		-20°C to 80°C (Storage)
	Supply Voltage:	90 to 264V AC 50/60Hz (Optional 20-50V AC 50/60Hz, 22-65V DC)
	Power Consumption:	4W Maximum
	EMI Immunity:	Meets with BS EN 50082-2 (1995)
	EMI Emmissions:	Meets with BS EN 50081-2 (1994)
Dimensions and: Panel Cut Out	Panel Cut-Out:	1/4 DIN - 92mm X 92mm
	Unit Dimensions:	96mm High X 96mm Wide X 100mm Deep

4400 Order Matrix:



Model

Standard Configuration

Input Type

1 - 3 Wire RTD or DC mV
2 - Thermocouple
3 - DC mA
4 - DC Voltage

Output 1

1 - Relay
2 - DC for SSR
3 - DC 0-10V
4 - DC 0-20mA
5 - DC 0-5V
7 - DC 4-20mA
8 - Triac (Consult Factory)

Output 2 (Alarm 2 or Control Output 2)

0 - Not fitted
1 - Relay
2 - DC for SSR
3 - DC 0-10V
4 - DC 0-20mA
5 - DC 0-5V
7 - DC 4-20mA
8 - Triac

Output 3 (Alarm 1 or Recorder O/P)

0 - Not fitted
1 - Relay
2 - DC for SSR
3 - DC 0-10V
4 - DC 0-20mA
5 - DC 0-5V
7 - DC 4-20mA
8 - Triac

Options

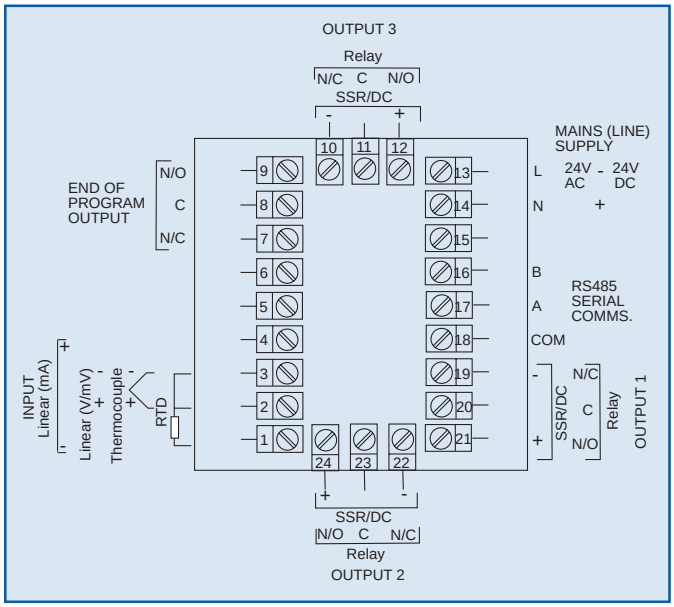
10 - RS-485 Serial Communication
02 - 24VAC/DC Power Supply
12 - RS-485 Serial Communication and 24VAC/DC Power Supply

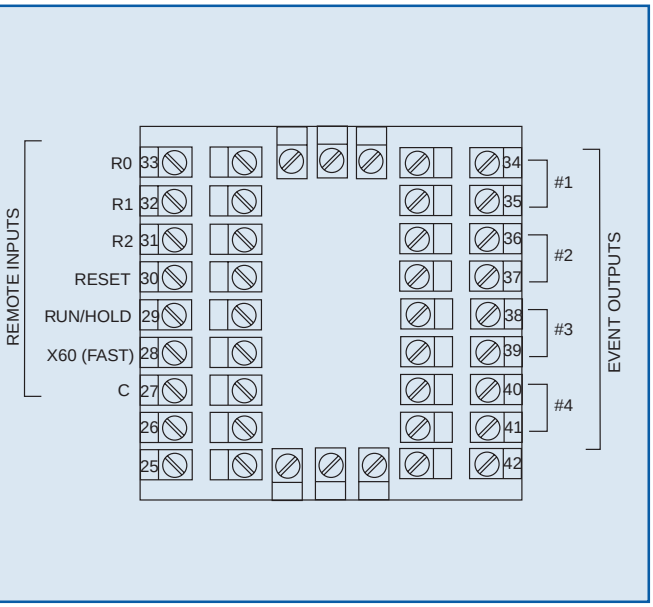
Advanced Options

100- Event Outputs
010- Remote Program Control Inputs
001- Real Time Clock

4400 Wiring Diagram and Notes:

Wiring Diagram:





Notes: