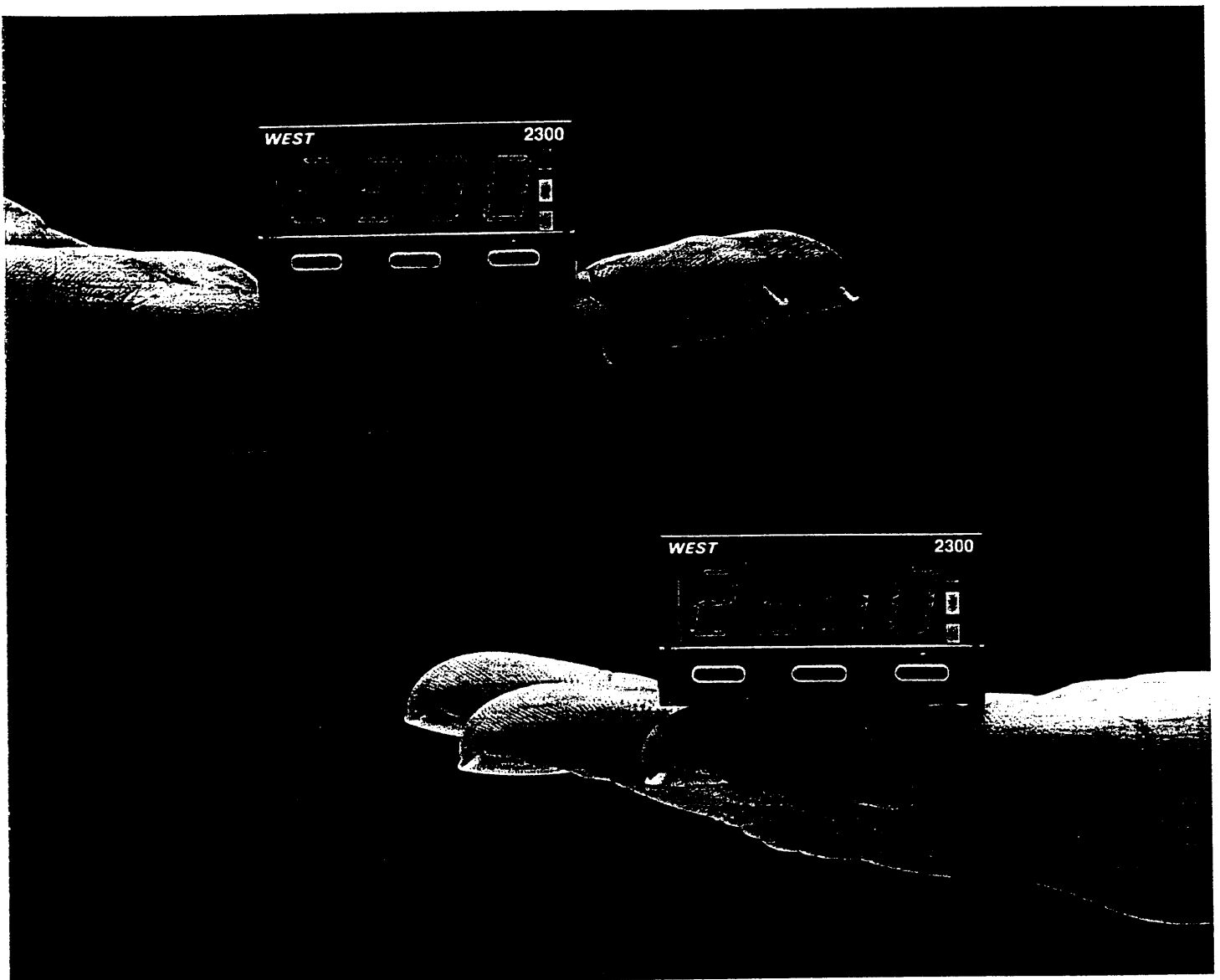


**WEST 2300  
1/32 DIN  
PROCESS CONTROLLER**

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**WEST**  
INSTRUMENTS

# How To ORDER

Order Code.....N230-/Y- - - -/M-/P-/S- -

Model \_\_\_\_\_  
 Process Primary Output \_\_\_\_\_  
 Alarm One Output \_\_\_\_\_  
 Option \_\_\_\_\_  
 Display Colour / Supply Voltage \_\_\_\_\_  
 Manual type \_\_\_\_\_  
 Packaging type \_\_\_\_\_  
 Special Feature Code \_\_\_\_\_

## MODEL

N2300 Model 2300 Process Controller

### PRIMARY OUTPUT TYPE

Code	Description
0	Not fitted
1	Relay (Alarm 1 Output SSR)
2	SSR (Alarm 1 Output relay)

### ALARM 1 TYPE

Code	Description
0	Not fitted
1	Relay (Primary Output SSR)
2	SSR (Primary Output Relay)

### OPTION

Code	Description
0	No option fitted
1	Alarm 2 Relay Output
2	RS-485 Comms (MODBUS protocol)

### DISPLAY COLOUR /SUPPLY VOLTAGE

Code	Description
0	Green Display, 90 - 264V AC supply
1	Red Display, 90 - 264V AC supply
2	Green Display, 12 - 30V DC/24 AC supply
3	Red Display, 12 - 30V DC/24 AC supply

### MANUAL TYPE

Multi-lingual Operator's Manual supplied as standard - Site Manual available separately - consult West Instruments

### PACKAGING TYPE

Various Packaging Options available - consult West Instruments

## INPUT RANGES

- User selectable Input Code
- Default factory setting is J/L type thermocouple, code 100
- Range max & min selectable for all sensor types
- °F ranges also selectable

Code	Sensor Type	Input Range
<b>Thermocouples</b>		
100	J/L	-200 - 1200
110	J/L	-128.0 - 537.0
200	T	-240 - 400
210	T	-128.0 - 400.0
300	K	-240 - 1372
310	K	-128.0 - 537.0
400	N	0 - 1399
500	B	100 - 1824
600	R	0 - 1760
700	S	0 - 1760
<b>RTD</b>		
800		-200 - 800
810		-128.0 - 537.0
<b>DC</b>		
900	0 - 20 mA	
1000	4 - 20 mA	
2000	0 - 50 mV	
3000	10 - 50 mV	

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# QUALITY TEMPERATURE CONTROL IN A 1/32 DIN PACKAGE

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The 2300 from West Instruments is a 1/32 DIN process controller which has been designed to offer users a smaller controller without sacrificing functionality.

Clarity of displayed information and ease of use have been the key driving factors for the product from conception.

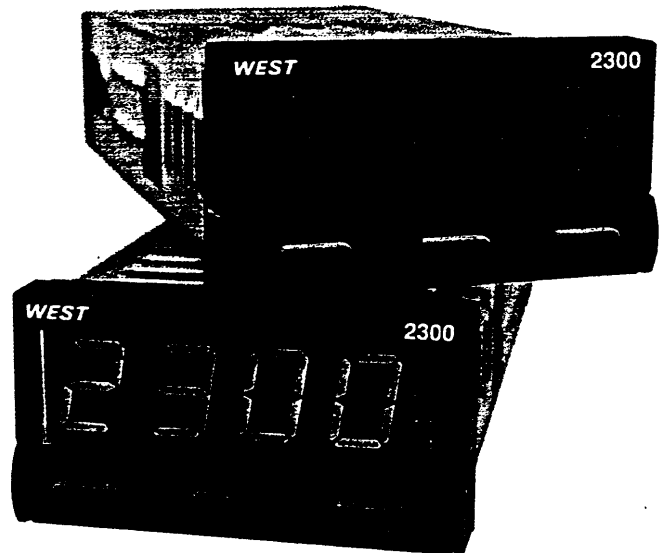
Visually, the 2300 sets new standards. The large 4 digit operator display area can be specified as either red or green. The clarity is further enhanced with three additional multi-colour indicators to show control, alarm and configuration status.

Three elastomeric switches provide a good positive human interface, and West's simplified menu for set-up and use make this one of the simplest process controllers to use.

Operators have a choice of pre-configured hands-free PID control or manual set-up with pre-tune. Configuration of the instrument can be achieved through a dedicated port, and no hardware reconfiguration is required at any time. Output options include 2A rated relays and 2-wire RS485 communications with MODBUS RTU protocol.

The 2300 represents a powerful process control tool in a tiny package, and is suitable for a broad range of applications:

- ☐ Large four digit LED display
- ☐ Universal input selection: T/C, RTD, DC mA/mV
- ☐ Two outputs as standard - third as option (alarm 2 or RS485 MODBUS RTU comms)
- ☐ Output relays rated at 2A
- ☐ 10V SSR Drive capability
- ☐ 90 - 264V AC and 12 - 30V DC/24V AC power compliance
- ☐ No hardware reconfiguration required
- ☐ Configurator port
- ☐ Selectable hands-free PID or manual adjustment with pre-tune
- ☐ CE, UL and IP66/NEMA 4 rated



## EXCELLENT VISIBILITY

Operators need to be able to see the status of an operation at all times, and want straightforward control options.

The 4 digit LED display on the West 2300 is designed for maximum visibility at a glance. The operator can easily view actual temperature, and has additional colour coded LEDs to indicate process status, alarm status and configuration mode.

## SIMPLE OPERATION

The 2300 has been designed to offer straightforward set-up and use.

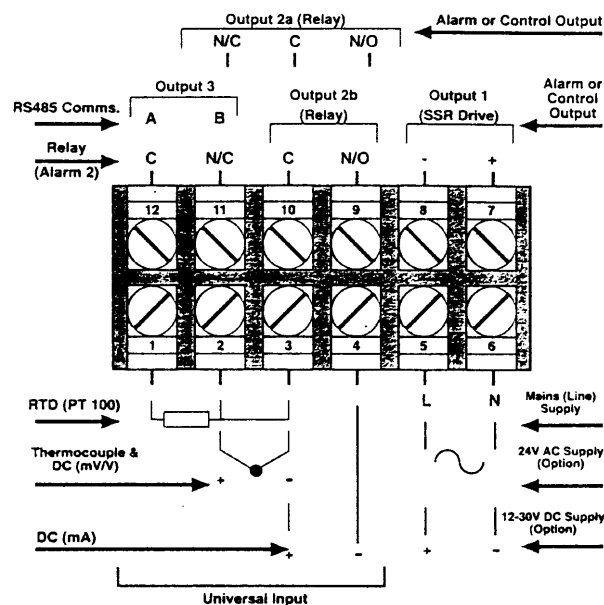
The controller comes with a specially developed hands-free PID tuning algorithm which will give ideal general control. For more specific performance requirements, there is also a manual adjustment option followed by pre-tune which can be engaged to get the very best control for a specific application.

No internal reconfiguration is required (i.e. there are no internal switches, links or options which need to be activated) and a configurator port is included.

## FLEXIBLE CONTROL

Specification has not been compromised by size. Equipped with a full complement of thermocouple inputs (a choice of seven), the 2300 also has a universal input and options for RTD, DC mV and mA inputs.

Outputs include a primary relay output rated at 2A (unusual for this size instrument) and options for a second relay or a 2-wire RS485 communications output with MODBUS RTU protocol.



2300 rear terminal connections

