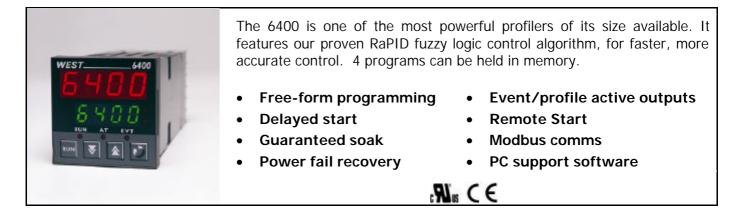
# West 6400 1/16 DIN Profiler Controller



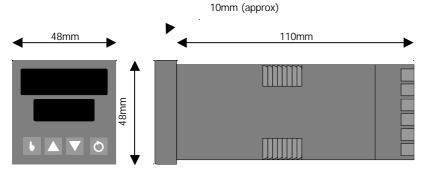


# Technical Data

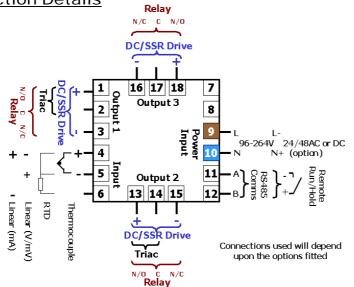
### Features

Features	
Control Types	PID with Pre-tune and RaPID fuzzy logic, or Manual Tuning. Heat or Heat/Cool, applications
Auto/Manual	Selectable from front panel, with bumpless transfer
Output Configuration	Up to 3 total. Max 2 for control (Heat & Cool), max 2 for Alarms, max 1 for retransmit PV or SP
Alarm 1 & 2 Types	Process high, process low, setpoint deviation and band
Human Interface	4 buttons, 10mm & 8mm high LED's, plus run-hold, tune, event & profile/control status LED's
PC Configuration	Off-line configuration & profile editing via config socket (comms option not required)
Profiles	
Number of Programs	4, each with 16 free-form segments (Ramp/Dwell/End). Max segment length 99 hours 59 minutes
Delayed Start	Max 99 hours 59mins delay from initiation to program start
Guaranteed Soak	Holds program if PV is outside of specified hold band during dwell segments.
Program Cycles	1 to 9999 or infinite (continuously re-starts program at end)
Ramp Rate Definition	Either ramp rate, or time to final setpoint
Power Loss Recovery	Hot (continue profile from point of power fail) or Cold (end profile and return to controller mode)
Input	
Thermocouple	J, K, R, S, T, B, L, & N.
RTD	3 Wire PT100, 50 $\Omega$ per lead maximum (balanced)
DC Linear	0-20/4-20mA, 0-50/10-50mV, 0-5/1-5/0-10/2-10V. Scaleable -1999 to 9999, dec point available
Impedance	>100M $\Omega$ for Thermocouple and mV ranges, 47K $\Omega$ for V ranges and 4.7 $\Omega$ for mA ranges
Accuracy	+/- 0.25% of input span +/- 1 LSD (T/C CJC better than 0.7°C)
Sampling	4 per second, 14 bit resolution approximately
Sensor Break Detection	<2 secs (except zero based DC ranges), control O/P's turn off, *high alarms activate (*low for RTD)
Outputs & Options	
Control/Alarm/Event	Contacts SPDT 2Amp resistive at 240V AC, >500,000 operations
Relay	Drive conchility $(A_{2})/DC$ in $1/(C_{2})/DC$ version evaluates
DC for SSR	Drive capability >4.2V DC in 1K $\Omega$ (10V 500 $\Omega$ version available)
DC Control/Retransmit	0-20/4-20mA into 500 $\Omega$ max, 0-10/0-5V into 500 $\Omega$ min. Control OP +/- 0.5%, Retransmit +/- 0.25%
Solid State (Triac)	0.01 to 1 Amp AC 20 to 280V, 47 to 63Hz
Remote Run-Hold	Volt free or TTL input (Hold = -0.6 to 0.8V or contact open, Run = 2 to 24V or contact close)
Communications	2 Wire RS485, 1200 to 9600 Baud, Modbus
Operating &	
Environmental	
Temperature & RH	0 to 55°C (-20 to 80°C storage), 20% to 95%RH non-condensing
Power Supply	90 to 264V 50/60Hz (optional 20 to 55V AC/22 to 65V DC), approx 4 Watts
Front Panel Protection	IEC IP66 (Behind panel protection is IP20)
Approvals and	CE, UL & Ulc
Certification	

## **Dimensions**

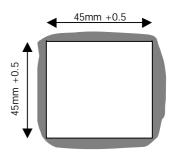


## **Connection Details**



## Order Code

## Panel Cut-out



# 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

N6400	0 - x ·	- x - x	- x - xx	- xxx	
Input type					
3 Wire RTD or DC mV	1			Blank	Specia
Thermocouple	2				1
DC mA	3				(requires
DC Voltage	4				
Output 1					
Relay Control	1				Options
DC for SSR Control	2			00	No Options/90-
DC 0-10V Control	3			02	No Options/24-48V A
DC 0-20mA Control	4			10	RS485 Comms/90-3
DC 0-5V SP Control	5			12	RS485 Comms/24-48V A
DC 4-20mA Control	7			30	Remote Run-Hold/90-
riac Control	8			32	Remote Run-Hold/24-48
Dutput 2					
Not fitted	0				
Relay Ctrl, Alarm 2, Event or Profile Active	1			0	
DC for SSR Control or Alarm 2	2			1	Relay Ctrl, Alarm 1, Ev
DC 0-10V Control	3			2	DC for
DC 0-20mA Control	4			3	DC 0-10V Re
DC 0-5V Control	5			4	DC 0-20mA Re
DC 4-20mA Control	7			5	DC 0-5V Re
Triac Control	8			7	DC 4-20mA Re

In accordance with our policy of continuous improvement, we reserve the right to change specifications from those shown in this document.

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