3500 Series

Dual Loop Controller/Programmer

Improve process efficiency, product quality and minimise waste

The latest range of advanced process controllers from Eurotherm provide precision control of temperature and a host of other process variables together with an abundance of advanced options making it the most adaptable product in its class.

The emphasis is on flexibility yet the 3500 controllers still maintain ease of use. A simple 'Quick Start' process is used to configure all the basic functions essential to controlling your process. This includes input sensor type, measurement range, control options and alarms making 'Out the Box' operation truly achievable. More advanced features are configured using a PC based graphical configuration tool enabling users to pick function blocks from a library then connect them together using soft wiring.

The large 5-digit display provides a clear and unambiguous indication of the process value. A four-line message centre provides custom or standard views of important information to the user while vertical and horizontal bargraphs provide at a glance visual indication of the process. OEM Security enables a user to protect their intellectual property by preventing unauthorised cloning of the configuration.

Dual loop

Two independent PID loops make the 3500 ideal for interactive processes such as those found in carburising furnaces, environmental chambers and autoclaves. The loops may also be 'soft' wired together in creative ways to create cascade, ratio or other intelligent control strategies.



- 2 PID loops
- 50 Programs
- Precision PV input
- Carbon potential
- Maths/logic/timers
- Custom user interface
- Recipes
- Digital communications
 - Modbus RTU Master and
 - Slave
 - Ethernet Modbus TCP
 - Profibus DP network
 - DeviceNet® network
- OEM Security
- Multi-language support (English, French, German, Spanish and Italian)

Setpoint programmer

Heat treatment and other processes often require the ability to change setpoints with time. The dual loop 3500 has two programmers which can be configured as synchronised or independent programs. 50 programs with up to two channels can be stored with a total of 500 segments.

Input/output flexibility

A range of plug-in I/O modules caters for individual application requirements minimising stock and spares holding. A total of sixteen module types, including relay, logic, triac and analogue, are available to fit into either three slots on 3508 or six slots on 3504.



by Schneider Electric

Control Optimise Simplify

Carbon potential

The 3500 calculates carbon potential from measuring both the oxygen concentration and temperature of a furnace using a zirconia probe. This enables a dual loop 3500 to be used to control both carbon potential and temperature in an atmosphere controlled furnace.

Customised solutions

The 3500 is more than just a process controller. It also provides a selection of application blocks including maths, logic and timing functions offering the ability to develop custom solutions and create cost effective machine controllers. The custom User Page feature allows an operator to view current information in a style most suitable to the process and terminology of the industry.

Communications

The 3500 is designed to integrate seamlessly with programmable logic controllers and other supervisory systems. A wide range of serial communication options are catered for including EIA232 and EIA485 using the Modbus RTU protocol along with Profibus DP and DeviceNet. Ethernet connectivity is achieved using the Modbus TCP protocol.

Recipes

Using a PC tool recipes can be created that can be used to change the operating parameters of the 3500 simply by selecting a new recipe via the HMI. This is very useful where multiple products are processed using the same controller but require different parameters to be set.

Infrared configuration adaptor

Communications to the 3500 can be achieved by using an infrared adaptor. Clipping onto the front fascia it provides Eurotherm iTools communications allowing configuration and commissioning to be performed without the need to access the rear terminals of the controller.



connected to the 3504

Eurotherm iTools Graphical Wiring Editor

The GWE is an extremely easy way to create applications. It allows users to select the function blocks they wish to use in their application then connect them together using 'Soft Wiring'. The GWE gives the user a pictorial view of exactly what he



has configured and can also be used to monitor runtime conditions.

IO Expander

Extra IO can be provided by the IO Expander. Options are available for 10in 10out and 20in 20out.

Specification

General

Environmental performance				
Temperature limits:	Operation:	0 to 50°C		
	Storage:	–10 to 70°C		
Humidity limits:	Operation:	5 to 95% RH non condensing		
	Storage:	5 to 95% RH non condensing		
Panel sealing:	-	IP65, NEMA12		
Vibration:		2g peak, 10 to 150Hz		
Altitude:		<2000 metres		
Atmospheres:		Not suitable for use in explosive or corrosive atmosphere*		

Electromagnetic compatibility (EMC)

Emissions and immunity: BS EN61326 Suitable for domestic, commercial and light industrial as well as heavy industrial. (Domestic/light (Class B) emissions. Industrial (Class A) environmental immunity emissions.

With Ethernet module fitted product only suitable for Class A emissions

Electrical safety_

BS EN61010:	Installation cat. II; Pollution degree 2
INSTALLATION CATEG	ORY II
The rated impulse volta	ge for equipment on nominal 230V mains is 2500V.
POLLUTION DEGREE	2
	ductive pollution occurs. Occasionally, however, a caused by condensation shall be expected.
Physical	
Dimensions:	2508: 18W x 06H x 150Dmm

Dimensions:	3508:	
	3504:	
Weight:	3508:	
	3504:	
Panel:		1/8 DIN mounting 45W x 92Hmm cut-out
	3504:	
Panel depth:	Both:	148mm
Operator interface		
Type:		STN LCD with backlight
Main PV display:	3508:	4 1/2 digits. green
	3504:	5 digits, green
Message display:	3508:	
	3504:	16 character header and 3 lines of 20 characters
Status beacons:		Units, outputs, alarms, program status, program
		events, active setpoint, manual, remote SP
Access levels:		3 operator plus config. Password protected
Power requirements		
Supply voltage:		100 to 230V ac, ±15%,
		48 to 62Hz, max 20W (3508 15W)
		24V ac, -15%, +10%.
		24V dc, -15% +20% ±5% ripple voltage
		max 20W (3508 15W)
Interrupt protection: Sta	andard:	Holdup >10ms at 85V RMS supply voltage
Low v	oltage:	Holdup >10ms at 20.4V RMS supply voltage
Inrush current:		
		30A duration <100µS
Low Voltag	ge (VL):	15A duration <100µS
User page		
		0

Number: 8 Parameters: 64 total Functions: Text, conditional text, values, bargraph Access level: User selectable (level 1, 2 or 3)

Back up Battery _

This instrument is fitted with a back up battery which should be changed between 6 and 10 years of use.

A record of instrument configurations or, preferably, a clone file should be maintained. This can be re-loaded following a battery change or other maintenance.

The battery is not serviceable: contact your local service centre to make suitable arrangements. For further information see User Manual HA027988 at www.eurotherm.co.uk

Approvals ____

CE, cUL listed (file E57766), Gost. Suitable for use in Nadcap and AMS2750E applications under System Accuracy Test calibration conditions

Communications

No of ports: 2 modules can be fitted Slot allocation: Modbus RTU or I/O expander only in J comms port Serial communications option ______ Protocols: Modbus RTU Slave

	Profibus DP
	DeviceNet
	EI-Bisync (818 style mnemonics)
	Modbus RTU master broadcast (1 parameter)
	I/O Expander
Isolation:	264V ac, double insulated
Transmission standard:	EIA232, EIA485, CAN (DeviceNet), Profibus

 $QH_{7}(110m_{s})$

type

16 bits

16 bits

at 25°C

100MQ

200µA

16 bits

from 25°C

±14nA

100MΩ

16 bits

from 25°C

±14nA

100MQ

-80mV to +80mV

<3.3uV with 1.6sec filter

<0.003% (best fit straight line)

>175dB (maximum of 264V rms)

>101dB (maximum of 280mV pk-pk)

-40mV to +40mV

<1.0µV with 1.6sec filter

<0.003% (best fit straight line)

>175dB (maximum of 264V rms)

>101dB (maximum of 280mV pk-pk)

from 25°C

download x 2

<0.2% of reading

<±1°C at 25°C ambient

3-wire Pt100 DIN 43760

<0.050°C with 1.6sec filter

<±0.03% (best fit straight line) <±0.310°C/°C, ±0.023% of measurement

0-400Ω (-200°C to +850°C)

communication

Off to 59.9s. Default 1.6s

2-point gain & offset

User adjustable over full range

Ethernet communications option

Protocol: Isolation: Transmission standard: Features: horion Modbus TCP, 10baseT 264V ac, double insulated 802.3 DHCP client, 4 simultaneous masters

<±0.1% of reading ±1LSD (Note 1)

264V ac double insulation from the PSU and

Uses 40mV and 80mV ranges dependent on

K, J, N, R, S, B, L, T, C, PL2, custom

>40:1 rejection of ambient change

External reference of 0°C, 45°C and 50°C

<±0.010°C/°C, ±25ppm/C of measurement

<0.000085°C/V (maximum of 264V rms)

<0.240°C/V (maximum of 280mV pk-pk)

<±4.6µV, ±0.053% of measurement at 25°C

<±7.5µV. ±0.052% of measurement at 25°C

<±0.2µV/°C, ±28ppm/C of measurement

<±0.2µV/C, ±28ppm/C of measurement

 0Ω to 22Ω , matched lead resistance

Main process variable input

Calibration accuracy: Sample rate: Isolation:

Input filter: Zero offset: User calibration:

Thermocouple

Range

Types: Resolution: Linearisation accuracy:

Cold junction compensation:

Cold junction accuracy:

Resistance thermometer

Range: Resistance thermometer types: Resolution (°C): Resolution: Linearity error: Calibration error:

Drift with temperature:

Common mode rejection: Series mode rejection: Lead resistance: Input impedance: Bulb current:

40mV Range

Range: Resolution (µV): Resolution: Linearity error: Calibration error: Drift with temperature:

Common mode rejection: Series mode rejection: Input leakage current: Input impedance:

80mV Range

Range: Resolution (µV): Resolution: Linearity error: Calibration error: Drift with temperature:

Common mode rejection: Series mode rejection: Input leakage current: Input impedance:

2V Range

-1.4V to +2.0V Range: <90µV with 1.6sec filter Resolution (mV): Resolution: 16 bits <0.015% (best fit straight line) Linearity error: Calibration error: <±420µV, ±0.044% of measurement at 25°C <±125µV/C, ±28ppm/C of measurement Drift with temperature: from 25°C Common mode rejection: >155dB (maximum of 264Vrms) Series mode rejection: >101dB (maximum of 4.5V pk-pk) Input leakage current: +14nA Input impedance: 100MQ 10V Range -3.0V to +10.0V Range: Resolution (mV): <550µV with 1.6sec filter Resolution: 16 bits <0.007% of reading for zero source resistance. Linearity error: Add 0.003% for each 10Ω of source plus lead resistance Calibration error: <±1.5mV, ±0.063% of measurement at 25°C <±66µV/C, ±60ppm/C of measurement Drift with temperature. from 25°C >145dB (maximum of 264V rms allowed) Common mode rejection: Series mode rejection. >92dB (maximum of 5V pk-pk allowed) Input impedance: $62.5 \text{k}\Omega$ to $667 \text{k}\Omega$ depending on input voltage Notes 1. Calibration accuracy quoted over full ambient operating range and for all input linearisation types 2. Contact Eurotherm

Digital IO (LA and LB) Isolation: Not isolated from each other. 264V ac double insulation from the PSU and communication Input Closed 0 to 7.3V dc Rating: Voltage level: Open 10.8 to 24V dc Contact closure: Open >1200Ω Closed <480Ω Includes program control, alarm acknowledge, Functions: SP2 select, manual, keylock, RSP select, standby Output 18V dc >9mA <15mA Ratina: Functions: Includes control outputs, alarms, events, status AA Relay Rating: Min 1mA @ 1V dc, Max 2A @ 264V ac resistive 1,000,000 operations with external snubber Isolation: 264Vac double insulation Includes control outputs, alarms, events, status Functions Input / Output modules IO Modules 3508: 3 modules can be fitted 3504: 6 modules can be fitted 20 Digital inputs, 20 relay outputs IO Expander: Analogue input module Calibration accuracy: ±0.2% of reading ±1LSD

Sample rate: Isolation: Input filter: Zero offset: User calibration: Functions: ±0.2% of reading ±1LSD 9Hz (110ms) 264V ac double insulation Off to 59.9s. Default 1.6s User adjustable over full range 2-point gain & offset Includes process input, remote setpoint, power limit

Thermocouple

Range:
Types:
Resolution (μ V):
Effective resolution:
Linearisation accuracy:
Cold junction compensation:

Cold junction accuracy:

K, J, N, R, S, B, L, T, C, PL2, custom $<3.3\mu$ V @ 1.6s filter time 15.9 bits <0.2% of reading >25:1 rejection of ambient change External reference of 0°C, 45°C and 50°C $<\pm1°C$ at 25°C ambient

-100mV to +100mV

Resistance thermometer

Range: Resistance thermometer types: Resolution (°C): Effective resolution: Linearity error: Calibration error: Drift with temperature: Common mode rejection: Series mode rejection: Lead resistance: Bulb current:

100mV Range

Range: Resolution (μ V): Effective resolution: Linearity error: Calibration error: Drift with temperature: Common mode rejection: Series mode rejection: Input leakage current: Input impedance:

2V Range

Range: Resolution (μV) : Effective resolution: Linearity error: Calibration error: Drift with temperature: Common mode rejection: Series mode rejection: Input leakage current: Input impedance:

10V Range

Range: Resolution (μ V): Effective resolution: Linearity error: Calibration error: Drift with temperature: Common mode rejection: Series mode rejection: Input impedance:

0-400Ω (-200°C to +850°C) 3-wire Pt100 DIN 43760 <±0.08°C with 1.6sec filter 13.7 bits <0.033% (best fit straight line) <±(0.4°C +0.15% of reading in °C) <±(0.015°C +0.005% of reading in °C) per °C <0.000085°C/V (maximum of 264V rms) <0.240°C/V (maximum of 280mV pk-pk) 0Ω to 22Ω , matched lead resistance 300µA

-100mV to +100mV <3.3µV with 1.6s filter time 15.9 hits <0.033% (best fit straight line) <±10µV, ± 0.2% of measurement at 25°C <±0.2µV + 0.004% of reading per °C >146dB (maximum of 264V rms) >90dB (maximum of 280mV pk-pk) <1nA >100M

- -0.2V to +2.0V 30uV with 1.6s filter time 16.2 bits <0.033% (best fit straight line) $<\pm 2mV + 0.2\%$ of reading <±0.1mV + 0.004% of reading per °C >155dB (maximum of 264Vrms) >101dB (maximum of 4.5V pk-pk) <10nA >100M
- -3.0V to +10.0V <200µV with 1 6sec filter 15.4 bits <0.033% (best fit straight line) <±0.1mV + 0.02% of reading per °C <± 0.1mV + 0.02% of reading per °C >145dB (maximum of 264V rms) >92dB (maximum of 5V pk-pk) >69kΩ

Potentiometer input

Type: Resistance: Excitation: Isolation: Functions

Single channel 100Ω to $15k\Omega$ 0.5V dc supplied by module 264V ac double insulation Includes valve position and remote setpoint

Analogue control output		
Туре:	Single channel	
Rating:	0-20mA <600Ω	
	0-10V dc >500Ω	
Accuracy:	<±2.5%	
Resolution:	10 bits	
Isolation:	264V ac double insulation	

Single channel

Analogue retransmission output

Type: Rating: Accuracy: Resolution. Isolation.

0-20mA <600Ω 0-10V dc >500Ω <±0.5% 11 bits 264V ac double insulation

Dual 4-20mA OP/24V dc TxPSU

Type: Rating Output: TxPSU: Isolation: Functions: Accuracy: Resolution:

Dual channel 4-20mA dc, <1KΩ 24V dc, 22mA 264V ac double insulation between channels Either channel can be control output or TxPSU <+1% 11 bits

Logic input modules Module types: Triple contact closure, triple logic level Isolation: No channel isolation. 264V ac double insulation from other modules and system Rat

Rating; Functions:	Voltage level: Contact closure:	from other modules and system Open –3 to 5V dc @ <-0.4mA Closed 10.8 to 30V dc @ 2.5mA Open >28k Ω Closed <100 Ω Includes program control, alarm acknowledge, SP2 select, manual, keylock, RSP select, standby
Logic out	put modules	
Module types: Isolation: Rating Single: Triple: Functions:		Single channel, triple channel No channel isolation. 264V ac double insulation from other modules and system 12V dc >20mA <29mA 12V dc >9mA <12mA Includes control outputs, alarms, events, status
Relay mo	dules	
Nodule types: Isolation: Rating:		Single channel Form A, Single channel Form C, dual channel Form A 264V ac double insulation Min 100mA @ 12V dc, Max 2A @ 264V ac resistive Min 400,000 (max load) operations with external snubber
Functions:		Includes control outputs, alarms, events, status
Triac mod	dules	
Module types: Isolation: Rating: Functions:		Single channel, dual channel 264V ac double insulation <0.75A @ 264V ac resistive Includes control outputs, alarms, events, status
Transmit	ter PSU modu	ıle
Type: Isolation: Rating:		Single channel 264V ac double insulation 24V dc @ 20mA
Transduc	er PSU modu	le
Type: Isolation: Bridge voltage Bridge resistar Internal shunt	nce:	Single channel 264V ac double insulation Software selectable 5V dc or 10V dc 300Ω to $15k\Omega$ 30.1Ω @0.25%, used for calibration of 350Ω bridge at 80%
I/O Expar	nder	
Type: Isolation: Ratings:	40 I/O:	4 Form C relays, 6 Form A relays, 10 logic inputs 4 Form C relays, 16 Form A relays, 20 logic inputs 264V ac double insulation between channels Min 100mA @ 12V dc, Max 2A @ 264V ac resistive
Communicatio	<u> </u>	Open -3 to 5V dc @ <-0.4mA Closed 10.8 to 30V dc @ 2.5mA Using EX comms module in comms slot J

Software features Control Number of loops: 2 Loop update: 110ms PID, OnOff, VP, Dual VP Control types: Cooling types: Linear, fan, oil, water Auto, manual, forced manual, control inhibit Modes: Overshoot inhibition: High and low cutbacks 3, selectable on PV, SP, OP, On Demand, Number of PID sets: program segment and remote input Control options: Supply voltage compensation, feedforward, output tracking, OP power limiting, SBR safe output Remote SP with trim, SP rate limit, 2nd Setpoint options: Setpoint, tracking modes

Setpoint programmer		Recipes	
Program function:	50 programs, max 500 segments	Number:	8
Program names:	User defined up to 16 characters	Parameters:	24 per recipe
No of profile channels:	2 (1 if single loop)	Length of name:	8 Characters
Operation:	Full or partially synchronised	Selection:	HMI, comms, strategy
Events:	8 per channel (8 when fully synchronised)		
	1 timed event, 1 PV event	Transducer calibration	
Segment types:	Rate, dwell, time, call, goback and wait	Number:	2
Digital inputs:	Run, Hold, Reset, RunHold, RunReset, Adv Seg,	Type:	Shunt, load cell, comparision
0	Skip Seq	Other features:	Autotare
Servo action:	Process value, setpoint		
Power failure modes:	Continue, ramp, reset	Communication tables	
Other functions:	Guaranteed soak, holdback, segment	Number:	250
	user values, wait inputs, PV hot start	Function:	Modbus remapping (indirection)
		Data formats:	Integer, IEEE (full resolution)
Process alarms		Data formator	
Number:	8	Application blocks	
Туре:	High, Iow, devhi, devlo, devband	Soft wiring:	Orderable options of 30, 60 120 or 250
Latching:	None, auto, manual, event	User values:	16 real numbers with decimal point
Other features:	Delay, inhibit, blocking, display message,	2 IP maths:	24 blocks, add, subtract, multiply, divide,
	3 priority levels	2 11 11100101	absolute difference, max, min, hot swap,
Divited element			sample and hold, power, square root,
Digital alarms			Log, Ln, exponential, switch
Number:	8	2 IP logic:	24 blocks, AND, OR, XOR, latch, equal,
Type:	PosEdge, negEdge, edge, high, low	2 11 109101	not equal, greater than, less than, greater
Latching:	None, auto, manual, event		than or equal to, less
Other features:	Delay, blocking, inhibit, display message,	8 IP logic:	2 blocks. AND, OR, XOR
	3 priority levels	8 IP multiplexor:	4 blocks. 8 sets of 8 values selected by
Zirconia			input parameter
Number:	1	8 IP multiple IP:	3 blocks, average, min, max sum
Functions:	Carbon potential, dewpoint, %O2 LogO2,	BCD Input:	2 blocks, 2 Decades
	probe mV	Input monitor:	2 blocks, max, min, time above threshold
Supported probes:	Barber Colman, Drayton, MMICarbon, AACC,	16 Pt linearisation:	2 blocks, Ifax, Ifax, and above areanoid 2 blocks, I6-point linearisation fit
	Accucarb, SSI, MacDhui, BoschO2,	Polynomial fit:	2 blocks, characterisation by Poly Fit table
	BoschCarbon	Switchover:	1 block, smooth transition between 2 values
Gas reference:	Internal or remote analogue input	Timer blocks:	4 blocks, OnPulse, OnDelay, OneShot,
Probe diagnostics:	Clean recovery time, impedance measurement	TIME DIOCKS.	MinOn Time
Probe burn-off:	Automatic or manual	Counter blocks:	2 blocks, Up or down, directional flag
Other features:	Sooting alarm with tolerance setting, PV	Totaliser blocks:	2 blocks, op of down, directional hag 2 blocks, alarm at threshold value
		Real time clock:	1 block, day & time, 2 time based alarms
Humidity		hear time clock.	T DIOCK, day & time, 2 time based alarms
Number:	1		
Functions:	Relative humidity, dewpoint		
Measurement:	Psychrometric (wet & dry) inputs		
Atmosphere compensation:	Internal or remote analogue input		
Other features:	Psychrometric constant adjust		
calor locatoroo.	- cychromotrio constant dojust		
		Isolation	





Order Code Hardware/options coding

1 2	3 4 5 6	7 8 9 10	11 12 13 Note 2 Note 2
14 15 16 Note 2	17 18 19 20	21	
Basic Product	7 Toolkit Wires	15 H Comms Slot	17 Configuration Tools
3508 48 x 96mm unit 3504 96 x 96mm unit 1 Function	XXX Standard 30 Wires 60 60 Wires 120 120 Wires 250 250 Wires	XXNot fittedA2EIA232 ModbusY22-wire EIA485 ModbusF24-wire EIA485 ModbusAERS232 EI-Bisynch	XX None IT Standard Eurotherm iTools (DVD only
CC Standard F Profibus	8 Fascia G Eurotherm green S Silver	YE 2-wire EIA85 EI-Bisynch M1 RS232 Modbus master M2 2-wire EIA485 Modbus Master M3 4-wire EIA485 Modbus	18 Product Language ENG English FRA French GER German
VH 85-264V ac VL 24V ac/dc	9-14 IO Slots 1 - 6 (Note 2) XX No module fitted	Master FE 4-wire ElA485 El-Bisynch ET Ethernet Modbus 10 base T TCP IP (incl RJ45 Assy)	SPA Spanish ITA Italian
3 Loops 1 One loop 2 Two loops	R4 Change over relay R2 2 pin relay RR Dual relay T2 Triac TT Dual triac	PB Profibus DP (Note 1) PD Profibus with D type connector fitted (Note 1) DN DeviceNet	19Manual LanguageENGEnglishFRAFrenchGERGerman
4 Application	D4 DC control	16 J Comms Slot	SPA Spanish ITA Italian
XX Standard ZC Zirconia VP Dual Valve Positioning (Note 3)	AM Analogue input (not slot 2 or 5) D6 DC retransmission TL Triple logic input TK Triple contact input TP Triple logic output	XXNot fittedA2EIA232 ModbusY22-wire EIA485 ModbusF24-wire EIA485 ModbusAEEIA232 EI-BisynchYE2-wire EIA485 EI-Bisynch	20 Warranty XXXXX Standard WL005 Extended
5 Programs 1 1 Progs - 20 Segments	VU Potentiometer input MS 24V dc transmitter PSU G3 Transducer PSU 5 or 10V dc D0 Dual 4-20mA OP/24V dc	YE 2-wire EIA485 EI-Bisynch FE 4-wire EIA485 EI-Bisynch M1 RS232 Modbus master M2 2-wire EIA485 Modbus	21 Calibration Certificate
10 10 Progs - 500 Segments 25 25 Progs - 500 Segments 50 50 Progs - 500 Segments	HR High resolution DC retrans and 24V dc	Master M3 4-wire EIA485 Modbus Master	XXXXX None CERT1 Certificate of Conformity
6 Recipes	LO Isolated single logic OP	EX IO Expander module	CERT2 Factory Cal certificate

6	Recipes	
~		
X		No recipes
1		1 Recipe
4		4 Recipes
8		8 Recipes





3500 Accessories

HA027987	User guide	
HA027988	Engineering manual	
SUB35/ACCESS/249R.1	2.49R Precision resistor	
iTools/None/3000IR	Configuration IR clip	
iTools/None/3000CK	Configuration clip	
2000IO/VL/10LR/XXXX	10IN, 10OUT Expander	
2000IO/VL/20LR/20LR	20IN, 200UT Expander	

Notes 1. Only available with the Profibus

- Controller 2. I/O slots 4, 5 and 6 are only available on the 3504
- Provides Valve Position option in Heat/Cool applications. Single channel VP included as standard
- If standard config is selected an instrument without configuration will be supplied.
- If C or F units are selected they must be the same for both loops. If C or F are not selected for Loop 1 they cannot be selected for Loop 2.
- **6.** CH1 = Heat, CH2 = Cool.

A 4-20mA Linea X 0.20mA Linea

A	4-20mA Linear
Y	0-20mA Linear
W	0-5V dc Linear
W G V	1-5V dc Linear
V	0-10V dc Linear

Configuration coding



Program Event 8

8



Eurotherm Limited

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