

2704 4072



Advanced Process Controller/Programmer

Ideal for:

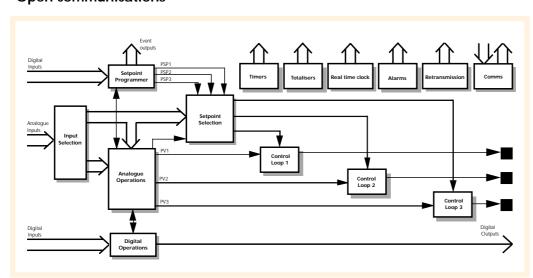
- Vacuum heat treatment
- · Carburising furnaces
- Semiconductor diffusion
- Creep and tensile testing
- Autoclaves
- Boiler control
- Environmental chambers the total system costs.

The 2704 is a highly accurate and stable process controller available in a single, dual or triple loop format. Features include setpoint programming and a comprehensive selection of maths and logic functions.

Its user interface incorporates a bright dot matrix display, providing extreme flexibility and ease of use. It is a highly configurable product offering many features previously found only in programmable logic controllers. This allows systems to be implemented integrating the process control and logic functions of a machine, therefore simplifying system complexity and reducing the total system costs.

Features: Configuration is achieved either via the front panel interface or using Eurotherm's iTools configuration software.

- 3 Control loops
- SP Programmer
- · Customisable user interface
- Maths & logic functions
- Open communications



Control Functions

- 3 Control loops
- PID, VP or ON/OFF
- Cascade, ratio or override
- Gain scheduling
- Configurable control strategies

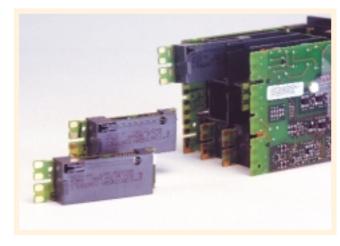
Eurotherm's advanced control algorithm gives stable straightline control. Automatic tuning simplifies the commissioning procedure by performing a one shot tune to calculate the optimum PID values. To further optimise control especially in programmer applications, gain scheduling can be used to transfer control between up to six sets of PID values.

Trending enables the user to view, both current and historical information on the process variable and setpoint of each control loop.



IO Hardware

- 0.25uV PV input resolution
- Fixed and modular IO
- 250Vac isolation
- Expandable IO
- Easily upgraded



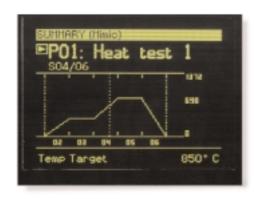
The 2704 incorporates a self correcting input circuit(INSTANT ACCURACY) to maximise accuracy and performance during initial warm up and changes in ambient temperature.

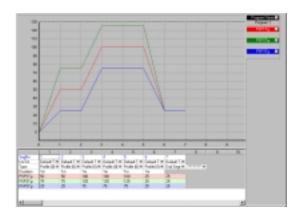
One universal and one high level analogue inputs, along with 10 digital IO are included as standard. Additionally, a further 5 IO modules may be fitted providing very flexible input/output combinations. The series 2000IO expander unit can provide an additional 20 digital inputs and 20 digital outputs.

Setpoint Programmer

- 60 Programs,
- 3 Profiled setpoints/program
- 650 Segments
- 16 Event outputs
- Program mimic display

Ideal for applications such as atmosphere or vacuum furnaces, and environmental chambers. The 2704 user interface offers the user an extremely easy method of editing, selecting and running programs.





- Offline or online editing on PC
- Graphical representation
- Advanced editing functions
- Storage and retrieval of program files

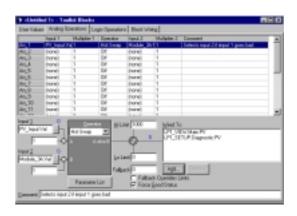
Toolkit Functions

- Mathematical calculations
- Combinational logic
- Real time clock
- Timer functions

Operators include;

Add, Subtract, Log, Exp, SQRT, AND, OR, Max, Min, Select and many more

ToolKit blocks allows the user to create custom solutions by internally wiring analogue and digital operations together in flexible ways. 24 analogue and 32 digital operations are available. Other functions are available including timers, totalisers and a real time clock.



I/O Expander

- 20 Logic inputs
- 20 Relay outputs

The 2000IO expander can increase the digital IO providing the option for greater remote operation of the programmer and expands the 2704 logic capability.



Slave Communications

- Modbus™ RTU
- Profibus® DP
- DeviceNet®
- EI-Bisync

The 2704 supports two slave communication ports. Its modular build provides the user with a selection of communication protocols allowing easy integration into both PLC and PC supervisory systems.

When using Profibus DP a GSD file has to be created, containing the information relating to the instruments parameters, that a Profibus master needs in order to communicate with its slave device. The GSD file for a 2704 is created using Eurotherm's GSD file editor.



Master Communications

- Modbus Protocol
- 100 read/write parameters
- Expands available hardware
- Interfaces to most Modbus slaves

Master modbus communications significantly increases the applications open to 2704. In its simplest form it can be used to retransmit a setpoint to a number of slave controllers in a multizone furnace. Alternatively, it can be integrated with an 8 loop blind controller to provide a remote operator interface with SP programmer functions.



Vacuum

- Direct interface to vacuum gauges
- Auto Hi/Lo gauge selection
- 6 Vacuum setpoints
- Pump timeout alarm
- Leak detection routine

At the heart of the vacuum controller is a specially designed function block capable of accepting up to three vacuum inputs. The 2704 is capable of being used solely to control the vacuum pump down sequence of a furnace, or as an integral furnace controller where both temperature and vacuum are controlled.



Carbon potential

- %CP, O2 or Dewpoint Measurement
- CO correction
- Probe burn off and sooting alarm
- Sooting alarm

Ideal for use in gas carburising furnaces where Zirconia probes are used to measure Carbon Potential. A three loop controller can be used to control furnace temperature, carbon potential and quench. The setpoint programmer is used in batch applications to generate synchronised temperature and carbon profiles.



Melt Pressure

- 350Ω Strain gauge input
- Transducer excitation
- Pressure alarms
- Screen blockage alarm
- Simple user calibration with shunt

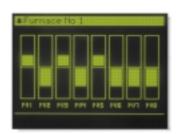
Suitable for precision pressure control in the plastic extrusion industries. Additionally a second pressure transducer can be used to provide a differential pressure alarm when the screen starts to block. Various machine start up strategies can be used to ensure a smooth transition from auto to manual mode.



Customisable Display

By using flexible User Pages, the user has the option of defining how the process screens are viewed. A maximum of eight user pages can be configured.







Technical specification

Quoted at 0 to 50°C unless otherwise stated. Refer to Engineering Manual for more details

No of loops	1, 2 or 3 loops	Dual (Probe) input	Clot 2 or 4
No. of loops		Allocation	Slot 3 or 6
Options	Cascade, Ratio or Override	Accuracy	±0.1%
Modes	PID, ON/OFF or Valve Position	Ranges	mV, mA, volts or RTD (PT100)
Applications	Carbon Potential, Humidity and Vacuum	Thermocouple types	J, K, T, L, N, R, S, B, PII, C, plus others
		Cold junction	Ext 0°C, 45°C or 50°C
STANDARD I/O			
Precision PV Input		Analogue input (mo	
Accuracy	±0.1%	Allocation	Slot 1, 3, 4 or 6
		Accuracy	±0.2%
Ranges	mV, mA, volts or RTD (PT100)	Ranges	mV, mA, volts or RTD (PT100)
Thermocouple types	J,K,L,N,R,S,B,PII,C, plus others	Thermocouple types	J, K, T, L, N, R, S, B, PII, C, plus others
Cold junction	Ext 0°C, 45°C or 50°C	Cold junction	Ext 0°C, 45°C, or 50°C
		Cold juricilori	LXI 0 C, 43 C, 01 30 C
Analogue input		SETPOINT PROGRA	MAMED
Allocation	1 fitted		1, 2 or 3 profiles
Accuracy	±0.1%	No profiles	
Ranges	-10V to 10V or 0 to 20mA	No. of programs	50 programs max.
tariges	-10 V to 10 V of 0 to 2011A	No. of segments	650 time to target segments
			(Max) or 400 ramp rate segments (max.)
Digital I/O		Event outputs	Up to 16
Types	1 digital input		
	7 Bi-directional input/outputs	I/O Expander	
	1 Changeover relay	10 I/O Version	4 Changeover and 6 normally open relay
		10 1/ 0 VELSIOIT	contacts
MODULES			
			10 Logic inputs
Digital outputs	0	20 I/O Version	4 Changeover and 16 normally open
Types	Single relay, dual relay, Single		contacts
	Triac, Dual Triac, Single Logic and Triple		20 Logic inputs
	Logic module		
Allocation	Slot 1, 3, 4, 5 or 6 (Max 3 Triacs per unit)	ADVANCED FUNCTI	ONS
		Application blocks	32 digital operations
Digital inputs		Application blocks	32 analogue operations
Digital inputs			
Types	Triple contact input, Triple logic input		3 multiple input blocks
Allocation	Slot 1, 3, 4, 5 or 6		50 user values
		Timers	4 ON pulse, OFF delay, one shot and
Analogue outputs			min-ON
Types	DC Control or DC	Totalisers	4, trigger level and reset input
турсз		Pattern generators	16 patterns each with 16 bits
A 11	Retransmission (5 Max)	Real time clock	Day of week and time
Allocation	Slot 1, 3, 4, 5 or 6	Customisable screens	
Range	0 to 20mA or 0 to 10Vdc	User switches	8, toggle and momentary function
		Oser switches	o, toggle and momentary function
Dual Analogue out	puts	Slave communication	
Allocation	Slot 1, 4 or 5		
Range	4-20mA or 24Vdc transmitter PSU	Allocation	Slot H or J (DeviceNet/Profibus slot H only)
Range	4-2011A OF 24 Vac transmitter 130	Types	Profibus DP RS485
			Modbus RTU RS485 (2 wire),
High Resolution An	•		RS485 (4 wire) or RS232
Allocation	Slot 1, 4 or 5		DeviceNet
Range	4-20mA and 24Vdc transmitter PSU		EI-Bisyc (subset of parameters)
J			2. 2.030 (Subset of parameters)
Fransmitter DSII		Master communicat	tions
	Slot 1 2 4 F or /	Master communicat	
Allocation	Slot 1, 3, 4, 5 or 6	Allocation	Slot J
Allocation	Slot 1, 3, 4, 5 or 6 24Vdc @ 20mA		Slot J Modbus RTU RS485 (2 wire),
Allocation		Allocation	Slot J Modbus RTU RS485 (2 wire), RS485 (4 wire) or RS232
Allocation Transmitter		Allocation	Slot J Modbus RTU RS485 (2 wire),
Allocation Transmitter Transducer supply	24Vdc @ 20mA	Allocation Types	Slot J Modbus RTU RS485 (2 wire), RS485 (4 wire) or RS232
Allocation Transmitter Transducer supply Bridge voltage	24Vdc @ 20mA Software selectable, 5 or 10Vdc	Allocation Types	Slot J Modbus RTU RS485 (2 wire), RS485 (4 wire) or RS232 100 read/write
Allocation Transmitter Transducer supply Bridge voltage	24Vdc @ 20mA	Allocation Types Parameters GENERAL SPECIFICA	Slot J Modbus RTU RS485 (2 wire), RS485 (4 wire) or RS232 100 read/write
Allocation Transmitter Transducer supply Bridge voltage Bridge resistance	24Vdc @ 20mA Software selectable, 5 or 10Vdc 300Ω to 15Kohms	Allocation Types Parameters	Slot J Modbus RTU RS485 (2 wire), RS485 (4 wire) or RS232 100 read/write ATION 5 digits up to 4 decimal places
Allocation Fransmitter Fransducer supply Bridge voltage Bridge resistance	24Vdc @ 20mA Software selectable, 5 or 10Vdc 300Ω to 15Kohms	Allocation Types Parameters GENERAL SPECIFICA	Slot J Modbus RTU RS485 (2 wire), RS485 (4 wire) or RS232 100 read/write ATION 5 digits up to 4 decimal places 85 to 264Vac, 20 watts (max.) or 24Vdc or
Allocation Fransmitter Fransducer supply Bridge voltage Bridge resistance Potentiometer inpu	24Vdc @ 20mA Software selectable, 5 or 10Vdc 300Ω to 15Kohms	Allocation Types Parameters GENERAL SPECIFICA Display range	Slot J Modbus RTU RS485 (2 wire), RS485 (4 wire) or RS232 100 read/write ATION 5 digits up to 4 decimal places 85 to 264Vac, 20 watts (max.) or 24Vdc or ac, 10 watts (max)
Allocation Transmitter Transducer supply Bridge voltage Bridge resistance Potentiometer inpu	24Vdc @ 20mA Software selectable, 5 or 10Vdc 300Ω to 15Kohms	Allocation Types Parameters GENERAL SPECIFICA Display range Operating ambient	Slot J Modbus RTU RS485 (2 wire), RS485 (4 wire) or RS232 100 read/write ATION 5 digits up to 4 decimal places 85 to 264Vac, 20 watts (max.) or 24Vdc or ac, 10 watts (max) 0 to 50°C and 5 to 95%RH non condensing
Allocation Fransmitter Fransducer supply Bridge voltage Bridge resistance Potentiometer inpu Potentiometer resistance	24Vdc @ 20mA Software selectable, 5 or 10Vdc 300Ω to 15Kohms t ce 330Ω to 150Kohms	Allocation Types Parameters GENERAL SPECIFICA Display range Operating ambient Storage temperature	Slot J Modbus RTU RS485 (2 wire), RS485 (4 wire) or RS232 100 read/write ATION 5 digits up to 4 decimal places 85 to 264Vac, 20 watts (max.) or 24Vdc or ac, 10 watts (max) 0 to 50°C and 5 to 95%RH non condensing -10 to 70°C
Allocation Fransmitter Fransducer supply Bridge voltage Bridge resistance Potentiometer inpu Potentiometer resistance Precision PV input (24Vdc @ 20mA Software selectable, 5 or 10Vdc 300Ω to 15Kohms t ce 330Ω to 150Kohms (Module)	Allocation Types Parameters GENERAL SPECIFICA Display range Operating ambient	Slot J Modbus RTU RS485 (2 wire), RS485 (4 wire) or RS232 100 read/write ATION 5 digits up to 4 decimal places 85 to 264Vac, 20 watts (max.) or 24Vdc or ac, 10 watts (max) 0 to 50°C and 5 to 95%RH non condensing
Allocation Fransmitter Fransducer supply Bridge voltage Bridge resistance Potentiometer input Potentiometer resistance Precision PV input (Allocation	24Vdc @ 20mA Software selectable, 5 or 10Vdc 300Ω to 15Kohms t ce 330Ω to 150Kohms (Module) Slot 3 or 6	Allocation Types Parameters GENERAL SPECIFICA Display range Operating ambient Storage temperature	Slot J Modbus RTU RS485 (2 wire), RS485 (4 wire) or RS232 100 read/write ATION 5 digits up to 4 decimal places 85 to 264Vac, 20 watts (max.) or 24Vdc or ac, 10 watts (max) 0 to 50°C and 5 to 95%RH non condensing -10 to 70°C IP65
Allocation Fransmitter Fransducer supply Bridge voltage Bridge resistance Potentiometer input Potentiom PV input (Allocation Accuracy	24Vdc @ 20mA Software selectable, 5 or 10Vdc 300Ω to 15Kohms telegraph and the selectable of 150Kohms (Module) Slot 3 or 6 $\pm 0.1\%$	Allocation Types Parameters GENERAL SPECIFICA Display range Operating ambient Storage temperature Panel seal	Slot J Modbus RTU RS485 (2 wire), RS485 (4 wire) or RS232 100 read/write ATION 5 digits up to 4 decimal places 85 to 264Vac, 20 watts (max.) or 24Vdc or ac, 10 watts (max) 0 to 50°C and 5 to 95%RH non condensing -10 to 70°C IP65 EN50081-1 and EN50082-2 generic
Allocation Fransmitter Fransducer supply Bridge voltage Bridge resistance Potentiometer input Potentiometer resistance Precision PV input (Allocation Accuracy Ranges	24Vdc @ 20mA Software selectable, 5 or 10Vdc 300Ω to 15Kohms telegraphic and the selectable of th	Allocation Types Parameters GENERAL SPECIFICA Display range Operating ambient Storage temperature Panel seal	Slot J Modbus RTU RS485 (2 wire), RS485 (4 wire) or RS232 100 read/write ATION 5 digits up to 4 decimal places 85 to 264Vac, 20 watts (max.) or 24Vdc or ac, 10 watts (max) 0 to 50°C and 5 to 95%RH non condensing -10 to 70°C IP65 EN50081-1 and EN50082-2 generic standards - suitable for domestic, commerci
Allocation Fransmitter Fransducer supply Bridge voltage Bridge resistance Potentiometer input Potentiometer resistance Precision PV input (Allocation Accuracy Ranges Fhermocouple types	24Vdc @ 20mA Software selectable, 5 or 10Vdc 300Ω to 15Kohms telectable and to 150Kohms (Module) Slot 3 or 6 ±0.1% mV, mA, volts or RTD (PT100) J, K, T, L, N, R, S, B, PII, C, plus others	Allocation Types Parameters GENERAL SPECIFICA Display range Operating ambient Storage temperature Panel seal	Slot J Modbus RTU RS485 (2 wire), RS485 (4 wire) or RS232 100 read/write ATION 5 digits up to 4 decimal places 85 to 264Vac, 20 watts (max.) or 24Vdc or ac, 10 watts (max) 0 to 50°C and 5 to 95%RH non condensing -10 to 70°C IP65 EN50081-1 and EN50082-2 generic standards - suitable for domestic, commerci and light industrial as well as heavy industria
Allocation Fransmitter Fransducer supply Bridge voltage Bridge resistance Potentiometer input Potentiometer resistance Precision PV input (Allocation Accuracy Ranges Fhermocouple types	24Vdc @ 20mA Software selectable, 5 or 10Vdc 300Ω to 15Kohms telegraphic and the selectable of th	Allocation Types Parameters GENERAL SPECIFICA Display range Operating ambient Storage temperature Panel seal EMC standards	Slot J Modbus RTU RS485 (2 wire), RS485 (4 wire) or RS232 100 read/write ATION 5 digits up to 4 decimal places 85 to 264Vac, 20 watts (max.) or 24Vdc or ac, 10 watts (max) 0 to 50°C and 5 to 95%RH non condensing -10 to 70°C IP65 EN50081-1 and EN50082-2 generic standards - suitable for domestic, commerci and light industrial as well as heavy industriae
Allocation Fransmitter Fransducer supply Bridge voltage Bridge resistance Potentiometer input Potentiometer resistance Precision PV input (Allocation Accuracy Ranges Fhermocouple types	24Vdc @ 20mA Software selectable, 5 or 10Vdc 300Ω to 15Kohms telectable and to 150Kohms (Module) Slot 3 or 6 ±0.1% mV, mA, volts or RTD (PT100) J, K, T, L, N, R, S, B, PII, C, plus others	Allocation Types Parameters GENERAL SPECIFICA Display range Operating ambient Storage temperature Panel seal	Slot J Modbus RTU RS485 (2 wire), RS485 (4 wire) or RS232 100 read/write ATION 5 digits up to 4 decimal places 85 to 264Vac, 20 watts (max.) or 24Vdc or ac, 10 watts (max) 0 to 50°C and 5 to 95%RH non condensing -10 to 70°C IP65 EN50081-1 and EN50082-2 generic standards - suitable for domestic, commerci and light industrial as well as heavy industria environments Meets EN61010 installation category II,
Allocation Transmitter Transducer supply Bridge voltage Bridge resistance Potentiometer input Potentiometer resistance Precision PV input (Allocation Accuracy Ranges Thermocouple types	24Vdc @ 20mA Software selectable, 5 or 10Vdc 300Ω to 15Kohms telectable and to 150Kohms (Module) Slot 3 or 6 ±0.1% mV, mA, volts or RTD (PT100) J, K, T, L, N, R, S, B, PII, C, plus others	Allocation Types Parameters GENERAL SPECIFICA Display range Operating ambient Storage temperature Panel seal EMC standards Safety standards	Slot J Modbus RTU RS485 (2 wire), RS485 (4 wire) or RS232 100 read/write ATION 5 digits up to 4 decimal places 85 to 264Vac, 20 watts (max.) or 24Vdc or ac, 10 watts (max) 0 to 50°C and 5 to 95%RH non condensing -10 to 70°C IP65 EN50081-1 and EN50082-2 generic standards - suitable for domestic, commerci and light industrial as well as heavy industria environments Meets EN61010 installation category II, pollution degree 2
Transmitter PSU Allocation Transmitter Transducer supply Bridge voltage Bridge resistance Potentiometer input Potentiometer resistance Precision PV input (Allocation Accuracy Ranges Thermocouple types Cold junction	24Vdc @ 20mA Software selectable, 5 or 10Vdc 300Ω to 15Kohms telectable and to 150Kohms (Module) Slot 3 or 6 ±0.1% mV, mA, volts or RTD (PT100) J, K, T, L, N, R, S, B, PII, C, plus others	Allocation Types Parameters GENERAL SPECIFICA Display range Operating ambient Storage temperature Panel seal EMC standards	Slot J Modbus RTU RS485 (2 wire), RS485 (4 wire) or RS232 100 read/write ATION 5 digits up to 4 decimal places 85 to 264Vac, 20 watts (max.) or 24Vdc or ac, 10 watts (max) 0 to 50°C and 5 to 95%RH non condensing -10 to 70°C IP65 EN50081-1 and EN50082-2 generic standards - suitable for domestic, commercia and light industrial as well as heavy industria environments Meets EN61010 installation category II,

Ordering information

It is only necessary to order the hardware required. Completion of the quick start code opposite will assist you in configuring the 2704. If you require Eurotherm to supply a **fully configured product**, you can use the iTools configuration software to generate a clone file which will be downloaded into the 2704 prior to shipment. Eurotherm will then assign a specific number to your instrument allowing you to easily re-order the same configuration. If you have not previously purchased iTools, please contact your local Eurotherm sales office.



TDS can be temperature compensated.

Example ordering code

2704 - VH - 323 - XX - RR - PV - D4 - TP - PV - A2 - XX - ENG - U1 - IT

This code describes a 3 loop controller with capability to store 20 three profile programs. Supply voltage is 85-264Vac. Modular hardware: 2 x PV input, 1 x Dual relay, 1 x DC control, 1 x Triple logic output, EIA-232 Comms. 16 analogue and 16 digital operations, iTools supplied with controller

Quick start code



Loop function

XXXX None Standard PID Cascade Ratio Override(7) PID control PID ONF On/Off control PID/OnOff control VP1 VP without feedback VP2 VP with feedback

Process inputs (Input type)

J Thermocouple K Thermocouple T Thermocouple Thermocouple N Thermocouple R Thermocouple S Thermocouple B Thermocouple Platinell II C Thermocouple RTD/Pt100

4-20mA linear 0-20mA linear 0-5Vdc linear 1-5Vdc linear 0-10Vdc linear

Custom downloads (replace C) Custom curve D thermocouple

E thermocouple Ni/Ni18%Mo Pt20%Rh/Pt40%Rh W/W26%Re (Engelhard)

W/W26%Re (Hoskins) W5%Re/W26%Re (Engelhard)

W5%Re/W26%Re (Bucose) Pt10%Rh/Pt40%Rh Exergen K80

I.R pyrometer

Analogue input

None PV Loop 2 P2-PV Loop 3 SP Loop 1 P3-S1-S2-S3-SP Loop 2 SP Loop 3 A1-A2-Aux. PV Loop 1 Aux. PV Loop 2 Aux. PV Loop 3 Ratio Lead PV Loop 1 Ratio Lead PV Loop 2 A3-L1-Ratio Lead PV Loop 3 Input range Select third digit from

table 1

Table 1 4-20mA linear 0-20mA linear 0-5Vdc linear 1-5Vdc linear 0-10Vdc linear P12

Prog events 5 & 6

Prog events 7 & 8

CH 1 Heat, CH2 Cool

Triple logic output

-HX CH1 Heat -CX CH1 Cool

1 & 2

1, 2 & 3

Slot function

XXX Unconfigured Single DC outputs Loop no. 1 -H-PID Heat Loop no. 2 PID Cool Loop no. 3 PV retransmission Single relay, triac, logic SP retransmission -HX Heat -CX Cool For output range select third digit from table 1 Dual relay or triac Precision PV input -HC PID Heat & Cool VP Heat -PV PV input module -PA Aux PV input (8) VP Heat FSH & FSH -AA Ratio lead input -AB -AC FSH & FSL Analogue input DH & DL -AD

-R- Setpoint FSH & DH For input range select third -AE -AF -AG -AH -AJ digit from table 1
Aux. & lead PV inputs FSL & DL FSL & FSL

FSH & DB -L- Ratio lead input -B- Aux. PV input FSL & DB DB & DB For input range select third HHX Heat output for loops digit from table 1 1 & 2 Potentiometer input

CCX Cool OP's loops 1 & 2 -VF VP Heat feedback Prog events 1 & 2 -RS Remote SP Prog events 3 & 4 Dual DC 4-20mA/24Vdc PSU

Output
HHX Heat output for loops 1 & 2 -HC Heat Cool CH1 Heat, Chan 2 PSU

ТΤХ Both channels PSU **HHX** Heat output for loops **High Resolution DC Output** 4-20mA PV Retrans -TA -TV 0-10V PV Retrans

HHH Heat output for loops 4-20mA SP Retrans 0-10V SP Retrans

General notes:

- Loop 1 PV defaults to main PV input on microboard. Loop 2 and 3 PV inputs must be fitted in I/O slots 3 or 6 or be assigned to the analogue input.
- Alarm configuration refers to loop alarms only. One selection is allowed per loop. Additional alarms are available for the user to configure.
- Thermocouple and RTD inputs assume sensor min and max values with no decimal point.
- Linear inputs are ranged 0-100%, no decimal point.
- Temperature units will be °C unless ordered by USA where °F will be used.
- Remote setpoints assume loop min & max ranges.
- VP1, VP2, VP3 and VP4 are not available with over ride function.
- 8. For Cascade and Override inputs only.
- HR module should be used in feedback mode, please refer to TIBC160

Ouick start order code

SVP1 - SPID - SPID - K - Z - A - S1A - 1VH - 2PV - 2HV - 3HC - 3PV

This code configures the hardware specified above:

Loop 1: Valve position control, Type K input, Heat VP output in slot 1,

4-20mA remote setpoint input

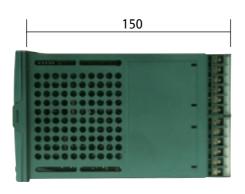
Loop 2: PID control, RTD input in slot 3, 0-10Vdc Heat output in slot 4.

Loop 3: PID control, 4-20mA input in slot 6, Logic heat/cool output in slot 5.

Dimensional details

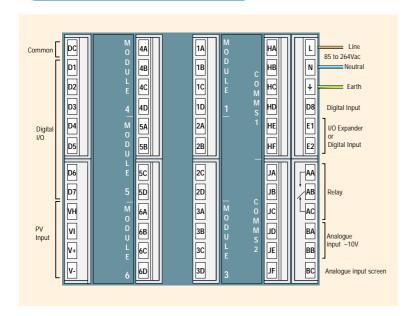
All dimensions in mm





Panel cut-out 92 x 92 -0.0 +0.8

Rear terminal connections



EUROTHERM LIMITED UK

Faraday Close Durrington Worthing BN13 3PL United Kingdom Tel. +44 (0)1903 205277 Fax +44 (0)1903 236465 Email info@eurotherm.co.uk

Web www.eurotherm.co.uk

EUROTHERM US

741-F Miller Drive Leesburg VA 20175-8993 Tel. 1-703-443-0000 Fax 1-703-669-1300 Email info@eurotherm.com

Web www.eurotherm.com

© Copyright Eurotherm Limited 2002

All rights are strictly reserved. No part of this document may be reproduced, modified, or transmitted in any form by any means, nor may it be stored in a retrieval system other than for the purpose to act as an aid in operating the equipment to which the document relates, without the prior written permission of Eurotherm limited.

Eurotherm Limited pursues a policy of continuous development and product improvement. The specifications in this document may therefore be changed without notice. The information in this document is given in good faith, but is intended for guidance only. Eurotherm Limited will accept no responsibility for any losses arising from errors in this document.

((