

Eurotherm 32h8 Temperature Controller

i n v e n s i s

Eurotherm

3200

SERIES



Temperature/ Process Controllers Specification Sheet

- 8 Segment programmer
- Heater failure detection
- Current monitoring
- Internal timer
- Scrolling text messages
- Recipes
- Modbus comms
- Modbus SP retransmission
- Analogue retransmission
- Remote setpoint
- Help text
- Type approved to EN14597 TR
- Multi-language support (French, German, Spanish and Italian)

The innovative range of 3200 controllers offer precision control of temperature and other process variables together with a host of advanced features not normally found in this class of controller.

The emphasis is on ease of use. A simple 'Quick Start' code is used to configure all the functions essential for controlling your process. This includes input sensor type, measurement range, control options, and alarms, making 'Out the Box' operation truly achievable. In operator mode every parameter has a scrolling text message describing its function and is available in English, German, French, Spanish or Italian. More advanced features are configured using iTools, a PC based configuration wizard which is an easy to use and instructive guide to all the functions in the controller.

Heater current monitoring

A current transformer input provides display of the heater current and a health check on the load. Partial load failure, heater open circuit and SSR faults are detected and displayed as scrolling alarm messages as well as providing an alarm output. On the 3208 and 3204 a front panel ammeter displays the heater current.

Setpoint programmer

Heat treatment profiles can be programmed using the 8-segment programmer. Holdback, at the beginning of each segment can be used to guarantee the soak periods. A digital event output can be triggered in any segment to initiate actions within the process.

Custom text messaging

Custom messages can be created with iTools and downloaded to the 3200 to display when an event, alarm or process condition occurs. This provides the operator with good visibility of the status of the process.

Remote setpoint

An option exists for the 3200 to have a Remote Analogue Input. This can be either volts or mA and is used to allow the setpoint to be generated by a master controller or PLC.

32h8 Temperature / Process Controller

- QuickStart set-up enabling 'out of the box' operation
- Expert configuration via PC wizard with online help
- Quick and easy commissioning – no need for expert knowledge
- Clear information of process with scrolling, custom messages
- Custom alarm messages for easy understanding
- Recipe selection from operator interface
- Internal timer and setpoint programming
- Instant indication of heater faults with integral ammeter
- Remote setpoint – solution for multi-zone applications



The innovative 32h8 controller offers precision control of temperature and other process variables together with a host of advanced features not normally found in this class of controller.

The emphasis is on simplicity and ease of use. A simple 'QuickStart' code can be used to configure all the functions essential for controlling your process. This includes input sensor type, measurement range, control options and alarms – making 'Out of the Box' operation truly achievable. If you prefer, you can specify what you need at point of order and we will ship the unit preconfigured to your requirements.

In operator mode every parameter has a scrolling text message describing its function and is available in English, German, French, Spanish or Italian. More advanced features are configured using iTools, a PC based configuration wizard which is easy to use and an instructive guide to all the functions in the controller.

FEATURES:

- 8 Segment programmer
- Heater failure detection
- Current monitoring
- Internal timer
- Scrolling text messages
- Recipes
- Modbus comms
- Modbus SP retransmission

- Analog retransmission
- Remote setpoint
- Help text

Order codes

Hardware/options coding



Basic Product

| | |
|------|---------------------------|
| 3216 | 48 x 48mm unit |
| 3208 | 48 x 96mm unit |
| 32h8 | 96 x 48mm horizontal unit |
| 3204 | 96 x 96mm unit |

1 Function

| | |
|----|----------------------------|
| CC | Standard controller |
| CP | Standard programmer |
| VC | Motorised valve controller |
| VP | Motorised valve programmer |

2 Supply Voltage

| | |
|----|--------------|
| VH | 85-264V ac |
| VL | 24V ac or dc |

3 Outputs

| 3216 | OP1 | OP2 |
|------|-------------|-----------------|
| XXXX | None fitted | None fitted |
| LXXX | Logic | None fitted |
| LRXX | Logic | Relay |
| RRXX | Relay | Relay |
| LLXX | Logic | Logic |
| LDXX | Logic | 0-20mA |
| DRXX | 0-20mA | Relay |
| RCXX | Relay | Isolated 0-20mA |
| LCXX | Logic | Isolated 0-20mA |
| DCXX | 0-20mA | Isolated 0-20mA |

| DDXX | 0-20mA | 0-20mA |
|------|--------|--------|
| LTXX | Logic | Triac |
| TTXX | Triac | Triac |

Not available with Low Voltage PSU

| 3208/32h8/3204 | OP1 | OP2 | OP3 |
|----------------|--------|--------|--------|
| LRRX | Logic | Relay | Relay |
| RRRX | Relay | Relay | Relay |
| LRDX | Logic | Relay | 0-20mA |
| RRDX | Relay | Relay | 0-20mA |
| LLDX | Logic | Logic | 0-20mA |
| LDDX | Logic | 0-20mA | 0-20mA |
| RDRX | Relay | 0-20mA | Relay |
| DRDX | 0-20mA | Relay | 0-20mA |

Not available with Low Voltage PSU

| | | | |
|------|--------|--------|--------|
| LLRX | Logic | Logic | Relay |
| DDDX | 0-20mA | 0-20mA | 0-20mA |
| LTRX | Logic | Triac | Relay |
| TTRX | Triac | Triac | Relay |
| LTDX | Logic | Triac | 0-20mA |
| TDDX | Triac | 0-20mA | 0-20mA |
| TTDX | Triac | Triac | 0-20mA |

4 AA Relay (OP4)

| | |
|---|---------------------------------|
| X | Not fitted |
| R | Relay |
| A | Dual relay (From A-OP3 and OP4) |

5 Options Board

| | |
|-----|----------------------------------|
| XXX | None fitted |
| XXL | Logic input |
| XCL | CT + Logic IP |
| 2XL | RS232 Comms + Logic IP |
| 4XL | 2-wire RS232 comms + Logic IP |
| 2CL | RS232 Comms CT + Logic IP |
| 4CL | 2-wire RS232 Comms CT + Logic IP |

6 Fascia Colour

| | |
|---|------------------------|
| G | Green |
| S | Silver |
| W | Washdown (not 32h8/04) |

7 Product Language

| | |
|-----|---------|
| ENG | English |
| FRA | French |
| GER | German |
| SPA | Spanish |
| ITA | Italian |

8 Manual Language

| | |
|-----|---------|
| ENG | English |
| FRA | French |
| GER | German |
| SPA | Spanish |
| ITA | Italian |

9 Warranty

| | |
|-------|----------|
| XXXXX | Standard |
| WL005 | Extended |

10 Certificates

| | |
|-------|---------------------------------|
| XXXXX | None |
| CERT1 | Certificate of Conformity |
| CERT2 | Factory Calibration Certificate |

11 Custom Label

| | |
|-------|------|
| XXXXX | None |
|-------|------|

12 Specials and Accessories

| | |
|--------|-------------------------------|
| XXXXX | None |
| RES250 | 250R resistor for 0-5V dc OP |
| RES500 | 500R resistor for 0-10V dc OP |

Mechanical Details

