

Mini8™

MODEL

Ideal for:

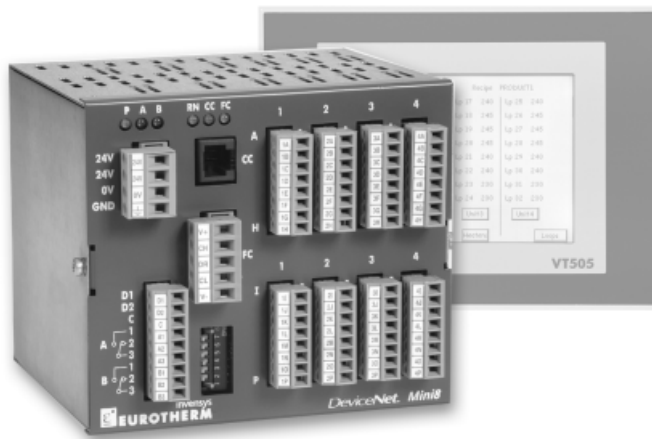
- Plastic extrusion
- Injection moulding
- Thermoforming
- Auxiliary equipment

Features:

- 8 precision PID loops
- Alarm management
- Heater failure detection
- Modbus RTU
- DeviceNet
- Profibus DP
- CANopen
- Modbus TCP

Features:

- 5.7" Touchscreen LCD
- Standard operator views
- Recipe management
- Alarm indication
- Heater status
- IO Diagnostics



8 Loop Plastics Controller Specification Sheet

The **Mini8** Plastics Controller is a pre-configured version of the standard Mini8 multiloop and data acquisition unit. It can control up to 8 temperature zones, each configurable as heat only or heat-cool. Eurotherm's cooling algorithm can be optimised for Fan or Water cooling ensuring optimum control even at high extruder speeds.

The Mini8 can multi-drop on either Serial, Fieldbus or Ethernet communications and offers a cost effective alternative to performing control loops in a PLC. By devolving control to the Mini8 the PLC can concentrate on providing fast and effective logic control without the processing burden of running complex control algorithms. Relieving the PLC of these functions can significantly reduce the total system cost including PLC hardware, signal conditioners, configuration and commissioning.

The standard configuration supports 8 thermocouple inputs defaulted to type J and 16 logic outputs for driving solid state relays. An optional current transformer input module can be fitted to provide rapid detection of a heater load failure, overcurrent as well as SSR short or open circuit. This feature ensures that action can quickly be taken to rectify a fault therefore minimising downtime and improving product yields.

The standard plastics configuration can be customised to a specific application by using Eurotherm's iTools Graphical Wiring Editor.

For detailed technical information on the Mini8 please refer to Specification sheet HA028480.

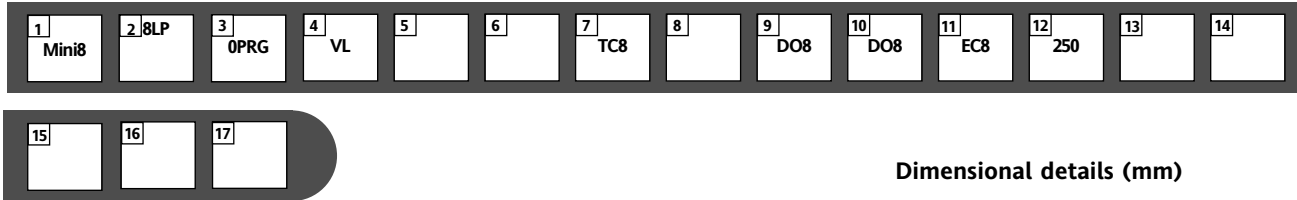
VT505 Operator panel

The Eurotherm VT505 Touchscreen operator panel can be used to supervise multiple Mini8 controllers. The VT505 can be ordered pre-configured to support Mini8 applications of up to 32 control loops and provides an ideal operator interface for monitoring and changing process parameters.

Although compact the VT505 is constructed in a rugged pressed aluminium case. Its IP65 panel rating makes it ideal for harsh environments.

Compatible with any Modbus RTU product such as the Mini8, and many other Eurotherm products, it can also be used as an operator display into programmable logic controllers.

Mini8



| 1 | Model |
|-----------|-------------------------|
| MINI8 | Mini8 controller |
| 2 | Control Loops |
| 8LP | 8 Control loops |
| 3 | Programs |
| 0PRG | No programs |
| 4 | PSU |
| VL | 24Vdc |
| 5 | Communications |
| MODBUS | Modbus RTU |
| ISOLMBUS | Isolated Modbus RTU |
| DEVICENET | DeviceNet |
| PBUSRJ45 | Profibus RJ45 |
| PBUS9PIN | Profibus 9 Pin 'D' type |
| ENETMBUS | Ethernet |
| CANOPEN | Modbus/TCP CANopen |

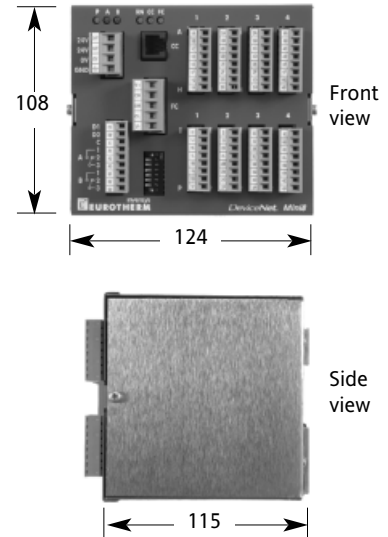
| 6 | Temperature Units |
|------|----------------------------|
| C | Centigrade |
| F | Fahrenheit |
| 8 | IO Slot 2 |
| XXX | No module fitted |
| CT3 | 3 Channel CT input |
| 11 | Application |
| EC8 | 8 Loop plastics controller |
| 12 | Wires |
| 250 | 250 User Wires |
| 13 | Recipes |
| None | No recipes |
| RCP | 8 Recipes |

| 14 | Installation Manual |
|----------------------|-------------------------------------|
| ENG | English |
| GER | German |
| FRA | French |
| SPA | Spanish |
| ITA | Italian |
| 15 | Configuration Software |
| NONE | No CD |
| ITTOOLS | ITools CD & Mini8 documentation |
| 16 | Warranty |
| XXXXX | Standard |
| WL005 | 5 Year |
| 17 | Cal Certificates |
| XXXXX | None |
| CERT1 | Certificate of conformity |
| CERT2 ⁽¹⁾ | Factory input calibration per input |

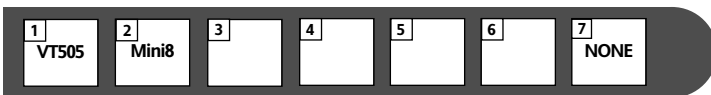
(1) CERT2 is 5 point calibration

Dimensional details (mm)

The Mini8 is intended to be mounted on symmetrical DIN rail to EN50022-35 x 7.5 or 35 x 15, mounted horizontally.



VT505 Operator panel

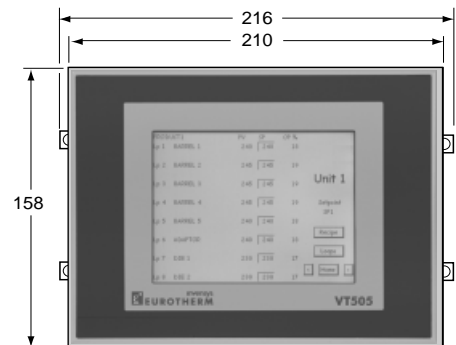


| 1 | Type |
|-------|---|
| VT505 | Monochrome touch screen, 320 x 240 pixels |
| 2 | Product |
| Mini8 | Configuration for Mini8 |
| 3 | Applications |
| EC8 | 8 loop plastics controller |
| EC16 | 16 loop plastics controller |
| EC24 | 24 loop plastics controller |
| EC32 | 32 loop plastics controller |

| 4 | Network Cables |
|---|-------------------|
| NONE | No cable supplied |
| F485 ⁽¹⁾ | Modbus RS485 |
| F232 | Modbus RS232 |
| (1) Modbus EIA485 cable required for use with Mini8 | |
| 5 | Manual |
| ENG | English |
| GER | German |
| FRA | French |

| 6 | Config Software |
|--|---------------------------|
| NONE | No software supplied |
| VTWIN ⁽²⁾ | Configuration software |
| (2) Config. cable supplied with VTWIN software | |
| 7 | Config. Software Language |
| NONE | Multi-language |

Dimensional details (mm)



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