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. The Eurotherm® cooling algorithm can be optimised for fan or water cooling ensuring optimum control even at high extruder speeds.

The Mini8 controller 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 instrument 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 the Eurotherm® iTools Graphical Wiring Editor.

For detailed technical information on the Mini8 controller 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 instrument 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 Plastics controller ordering code**

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<th>VL</th>
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**Basic Product**
- Mini8: Mini8 Controller

**Control Loops**
- RLP: 8 Control loops

**Programs**
- OPRG: No programs

**Communications**
- VL: 24V dc

**Mechanical Details**

**VT505 Operator panel**

**VT505 Operator panel ordering code**

**Basic Product**
- VT505: Monochrome touch screen, 320 x 240 pixels

**Network Cables**
- F485: Modbus EIA485 (Note 1)
- F232: Modbus EIA232

**Configuration Software**
- NONE: No configuration software
- VTWIN: VTWIN configuration software

**Manual Language**
- ENG: English
- FRA: French
- GER: German

**Config. Software Language**
- NONE: Multi-language

**Applications**
- EC8: 8 Loop plastics controller
- EC16: 16 loop plastics controller
- EC24: 24 loop plastics controller
- EC32: 32 loop plastics controller

**Temperature Units**
- C: Centigrade
- F: Fahrenheit

**Manual Language**
- ENG: English
- FRA: French
- GER: German
- SPA: Spain
- ITA: Italian

**Configuration Software**
- MODBUS: Modbus RTU
- ISOLMBUS: Isolated Modbus RTU
- DEVICENET: DeviceNet
- PROFIBUS: Profibus 9 Pin 'D' type
- ETHERNET: Ethernet Modbus/TCP
- CANOPEN: CANopen

**Warranty**
- XXXX: Standard
- XXXX: Extended

**Calibration Certificates**
- XXXX: None
- CERT: Certificate of Conformity

**Notes**
- 1. Modbus EIA485 cable required for use with Mini8.
- 2. Config cable supplied with VTWIN software.

**Eurotherm: International sales and service**

[www.eurotherm.com](http://www.eurotherm.com)