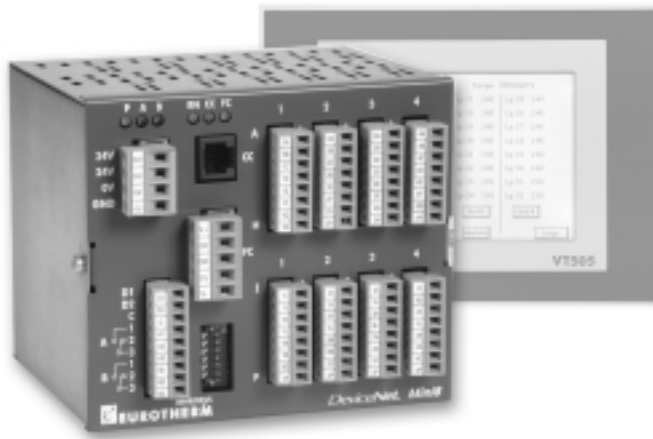


# Mini8™

## MODEL



## 8 Loop Plastics Controller Specification Sheet

### Ideal for

- Plastic extrusion
- Injection moulding
- Thermoforming
- Auxiliary equipment

### Features

- 8 precision PID loops
- Alarm management
- Heater failure detection
- Modbus RTU
- DeviceNet

The **Mini8** Plastic 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 Modbus RTU or DeviceNet 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 programming software. Minor changes can be accomplished by an extremely easy to use wizard and more advanced changes can be achieved by a graphical configuration editor.

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

## VT505 Operator panel

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

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	2	3	4	5	6	7	8	9	10	11	12	13	14
Mini8	8LP	0PRG	VL			TC8		DO8	DO8	EC8	250		

15	16	17
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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

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

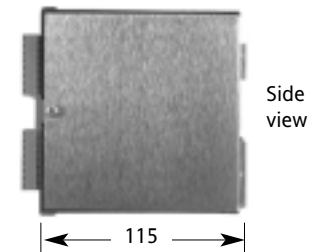
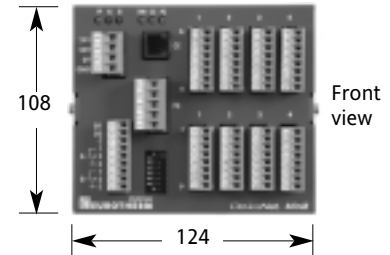
15	Configuration Software
NONE	No CD
ITTOOLS	ITools CD & Mini8 documentation

16	Warranty
WL003	3 Year
WL005	5 Year

17	Cal Certificates
XXXXX	None
CERT1	Certificate of conformity
CERT2	Factory input calibration per input
CERT3	Customer input 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	2	3	4	5	6	7
VT505	Mini8					

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	Modbus RS485
F232	Modbus RS232

5	Manual
ENG	English
GER	German
FRA	French

6	Config Software
NONE	No software supplied
VTWIN	Configuration software

Note: Config. cable supplied with VTWIN software

7	Config. Software Language
NONE	No configuration software
ENG	English
GER	German
FRA	French
SPA	Spanish
ITA	Italian

### Dimensional details (mm)

