

2132 2116

MODELS

Ideal for

- small ovens
- chillers
- sterilisers
- trace heating
- heat sealing

Specifications

Dimensions:

Model 2132:
48W x 24H x 103D mm

Model 2116:
48W x 48H x 103D mm

Control modes:

PID or On/Off

Supply voltages:

85-264Vac, 5.0watts max.
20-29Vac or dc, 5.0watts maximum

Operating ambient:

0-55°C, 0-90%RH non-condensing

Inputs:

Nine standard thermocouple types.
Pt100. 4-20mA linear.
Custom input available

Output ratings:

Relay: 2A, 264Vac resistive
Logic: 9Vdc, 18mA

Panel sealing:

IP65, plug-in from front panel



PID Temperature Controllers

Available in compact 1/32 and 1/16 DIN panel sizes, the 2100 series uses advanced PID algorithms to give stable 'straight line' temperature control.

Self tuning is included to optimise the control performance without the need for specialist knowledge or training.

A **universal input** allows selection of nine internally stored thermocouple types and the Pt100 resistance thermometer. Other input linearisations may be factory downloaded. Linear inputs can be scaled to the desired display range.

Two **outputs** are configurable for heating, cooling or alarms.

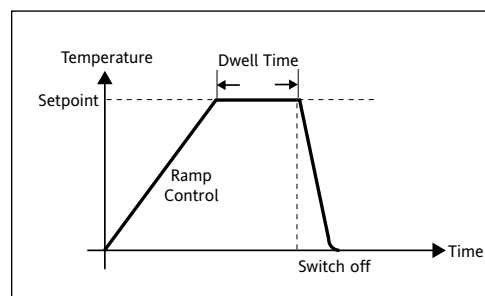
Three internal alarm setpoints are provided, configurable as high, low or deviation alarms. Alarms can be 'blocked' on start-up to prevent unnecessary operator alerts.

Heater failure can be detected when the controller is used with a TE10S Solid State Relay.

Tactile buttons ensure positive operation.

The operator interface can be customised to present only those parameters that an operator needs to see and adjust, while all other parameters are locked away under password protection.

Timer functionality



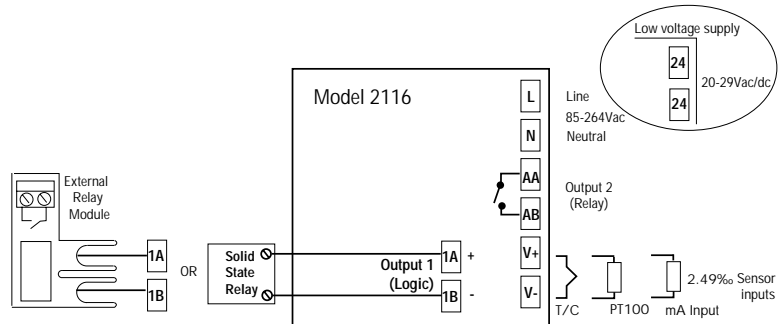
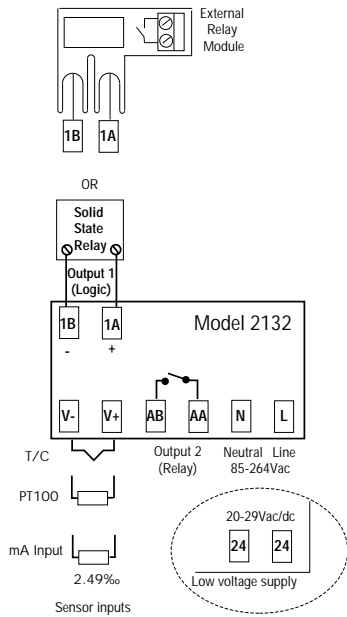
EUROTHERM

CONTROLS
PROCESS AUTOMATION
RECORDERS

Rear terminal connections

Model 2132

Model 2116



Ordering codes

Model Number	Function	Supply Voltage	Manual	Output 1 (Logic)	Output 2 (Relay)	Sensor Input	Setpoint Min	Setpoint Max	Units	Ext. Relay Module	Input Adaptor
							note 2	note 2			

Model Number	Output 1 (Logic)	Output 2 (Relay)	Sensor Input	Setpoint Min	Setpoint Max
2132 48x24mm unit 2116 48x48mm unit	XX No function Logic output LH Heating LC Cooling MT PDS heater break detect (note 1) FH High alarm 1 FL Low alarm 1 DB Dev. band alarm 1 DL Dev. low alarm 1 DH Dev. high alarm 1 NW New alarm Logic input AC Alarm ack/reset KL Keylock TM Timer Off/On	XX No function RH Heating RC Cooling FH High alarm 2 FL Low alarm 2 AL High alarm 2 & low alarm 3 DB Dev. band alarm 2 DL Dev. low alarm 2 DH Dev. high alarm 2 NW New alarm	Standard Sensor Inputs J J Thermocouple K K Thermocouple T T Thermocouple L L Thermocouple N N Thermocouple-Nicrosil/Nisil R R Thermocouple-Pt/Pt13%Rh S S Thermocouple-Pt /Pt10%Rh B B Thermocouple-Pt/Pt30%Rh -6%Rh P Platinel II Thermocouple Z RTD/PT100 DIN 43760 Factory Downloaded Input C C Thermocouple - W5%Re/W26%Re (Hoskins) D D Thermocouple - W3%Re/W25%Re E E Thermocouple 1 Ni/Ni18%Mo Thermocouple 2 Pt20%Rh/Pt40%Rh Thermocouple 3 W/W26%Re (Engelhard) Thermocouple 4 W/W26%Re (Hoskins) Thermocouple 5 W5%Re/W26%Re (Engelhard) Thermocouple 6 W5%Re/W26%Re (Bucose) Thermocouple 7 Pt10%Rh/Pt40%Rh Thermocouple 8 Exergen K80 I.R. pyrometer Process Inputs (Scaled to setpoint min and max) M -9.99 to +80mV linear Y 0 to 20mA linear (note 3) A 4 to 20mA linear (note 3) V 0 to 10Vdc linear (Input adaptor required)	Min °C -210 -200 -200 -200 -200 -50 -50 0 0 -200 0 0 -200 0 0 10 0 200 -45 -1999 -1999 -1999 -1999	Max °C 1200 1372 400 900 1300 1768 1768 1820 1369 850 2319 2399 1000 1399 1870 2000 2010 2300 2000 1800 650 9999 9999 9999 9999

Note 1. PDS heater break detect will transmit the power demand to a TE10S Solid State Relay and read back a heater break alarm.

Note 2. Setpoint min and max : Include the decimal position required in the displayed value. Up to one for temperature inputs, up to two for process inputs.

Note 3. An external 1% current sense resistor is supplied as standard. If greater accuracy is required specify 'A1' in the Input Adaptor field.

Example ordering code
 2132-CC-VH-ENG-LH-RC-K-0-1000-C-XX-XX

2132, Controller, 85 to 264Vac, English manual, Logic heating, Relay cooling, Type K thermocouple, 0 to 1000°C, no options

UK SALES OFFICE

Eurotherm Ltd
 Faraday Close Durrington Worthing BN13 3PL United Kingdom
 Sales and support: Tel. +44 (0)1903 695888 Fax +44 (0)1903 695666
Sales and support in over 30 countries worldwide
 Enquiries/orders to:
 Eurotherm Ltd Faraday Close Durrington
 Worthing BN13 3PL United Kingdom
 Tel. +44 (0)1903 268500 Fax +44 (0)1903 265982

Units	Ext. Relay Module	Input Adaptor
C Celsius F Fahrenheit K Kelvin X Linear input	XX Not fitted R7 Fitted (Operated by the logic output)	XX Not fitted V1 0-10Vdc A1 0-20mA or 4-20mA 0.1% current sense resistor (2.49Ω)

EUROTHERM LIMITED
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