

2132 2116

MODELS

...with improved timer



Model 2132
1/32 DIN (48 x 24mm)



Model 2116
1/16 DIN (48 x 48mm)

Ideal for:

- Ovens
- Chillers
- Sterilisers
- Trace heating
- Heat sealing

Features:

- Universal input
- Self tuning
- In-built timer
- Setpoint rate limit
- Tactile buttons
- Wide-range 85-264V ac, or 20-29Vac/dc supply
- Plug-in from front
- IP65 and NEMA 4X panel sealing
- Three year warranty

PID Temperature Controllers

Available in compact 1/32 and 1/16 DIN panel sizes, the 2132 and 2116 temperature controllers are designed for accurate, trouble free control of ovens, chillers, sterilisers and other simple heating and cooling processes. Two outputs are configurable for heating, cooling and alarms.

Eurotherm's advanced control techniques give stable "straight-line" temperature control. Self tuning is included to optimise the control performance without the need for specialist knowledge or training. Heater failure can be detected when the controller is used with a Eurotherm TE10S Solid State Relay (requires PDSIO mode 1).

Three internal alarm setpoints are provided, configurable as latching or non-latching. Alarms can be "blocked" on start-up to prevent unnecessary operator alerts.

Calibration accuracy is maintained with a self-correcting input circuit. User calibration allows offsets to be applied to compensate for sensor and other system errors.

Improved timer

An improved timer can apply heating (and cooling) for a pre-set period, or delay heating to come on after a set time. The latter is useful for over-night batch processing.

Covers a wide range of temperature and process inputs

Easy commissioning

Sets heating/cooling times

Provides ramp-dwell heat treatment profile

Friendly to use

Can be installed world-wide

Rapid replacement - reducing downtime

Can be used in wet and dusty atmospheres

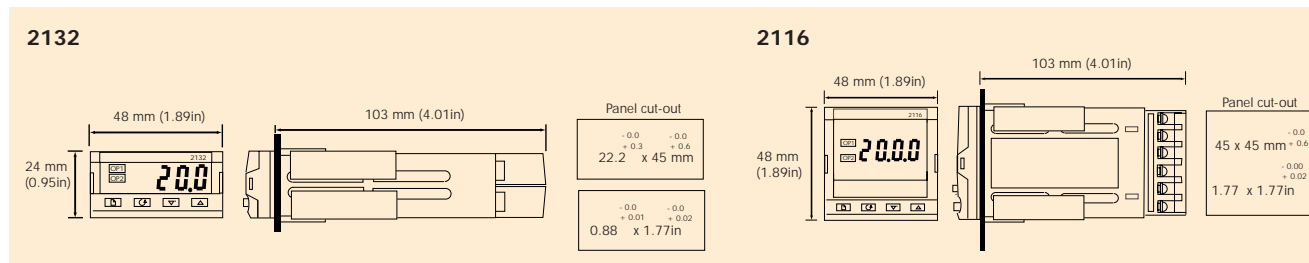
Low ownership cost



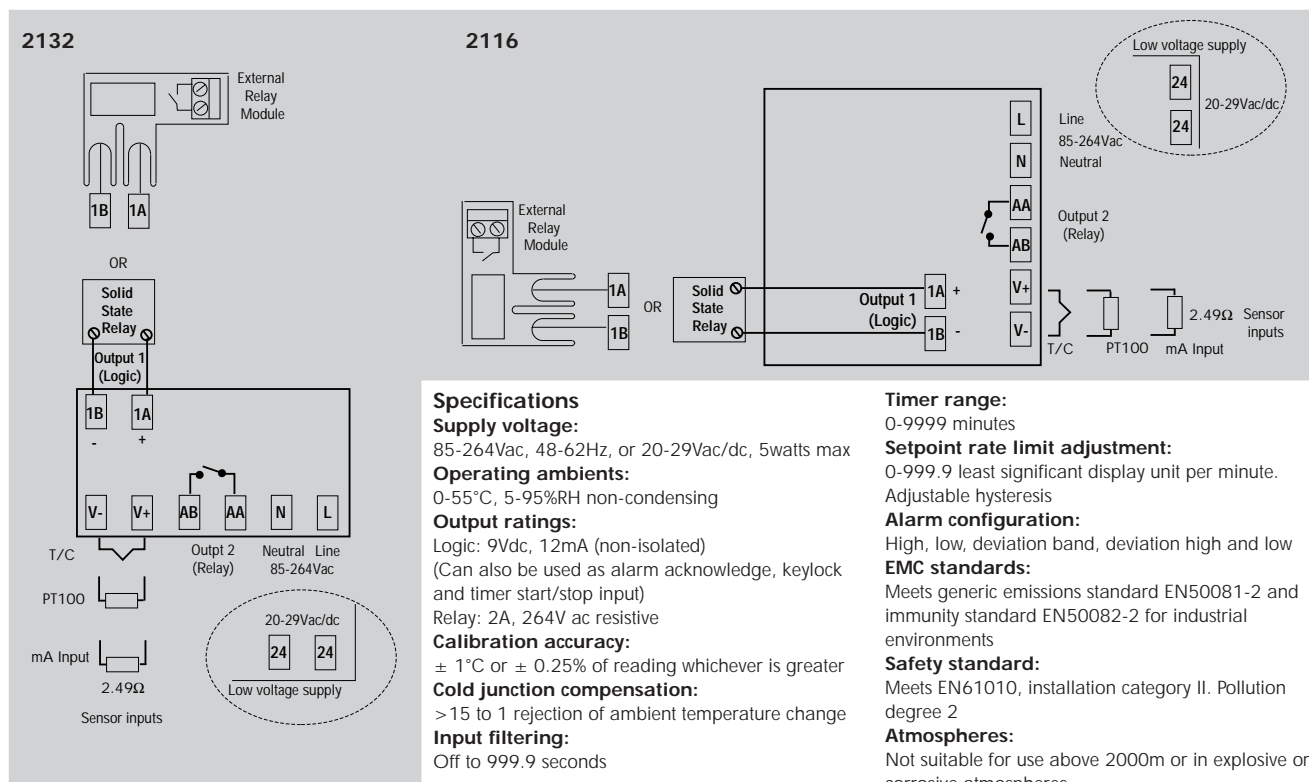
**EUROTHERM
CONTROLS**

**PID
Temperature
Controllers**

Dimensions



Electrical connections



Ordering Code

Model Number	Function	Supply Voltage	Manual	Output 1 (Logic)	Output 2 (Relay)	Sensor Input	Setpoint Min.	Setpoint Max.	Units	Ext. Relay Module	Input Adaptor
2132	48 x 24mm unit						note 2	note 2			
2116	48 x 48mm unit										

Model Number	Output 1 (Logic)	Output 2 (Relay)	Sensor Input	Setpoint Min/Max	Units
2132 48 x 24mm unit	XX No function RH Heating LC Cooling M1 PDS heater break detect (note 1)	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 1 DH Dev. high alarm 1 NW New alarm	Thermocouples J Type J K Type K T Type T L Type L N Type N R Type R S Type S B Type B P Type Pt100 Resistance thermometer Z Pt100 Custom downloaded inputs C Type C - W5%Re/W26%Re (default custom sensor) D Type D - W3%Re/W25%Re E E Thermocouple 1 Ni/Ni18%Mo 2 Pt20%Rh/Pt40%Rh 3 W/W26%Re (Engelhard) 4 W/W26%Re (Hoskins) 5 W5%Re/W26%Re (Engelhard) 6 W5%Re/W26%Re (Bucose) 7 Pt10%Rh/Pt40%Rh 8 Exegen K80 I.R. pyrometer Process inputs (linear) M -9.99 to +80mV Y 0 to 20mA (note 3) A 4 to 20mA (note 3) V 0 to 10Vdc (input adaptor required)	Min °C Max -210 to 1200 -200 to 1372 -200 to 400 -200 to 900 -200 to 1300 -50 to 1768 -50 to 1768 0 to 1820 0 to 1369 -200 to 850 0 to 2319 -200 to 999 0 to 1399 0 to 1870 0 to 2000 0 to 2010 10 to 2300 0 to 2000 200 to 1800 -45 to 650 -1999 to 9999 -1999 to 9999 -1999 to 9999 -1999 to 9999	C °C F °F K Kelvin X Linear input

Function	Supply Voltage	Manual
CC PID Controller NF ON/Off Controller TC PID Controller + Timer TN ON/Off Contr* + Timer	VH 85-264Vac VL 20-29V dc or ac	XXX No manual ENG English FRA French GER German NED Dutch SPA Spanish SWE Swedish ITA Italian

Output 1 (Logic)	Output 2 (Relay)	Sensor Input	Setpoint Min/Max	Units
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	FH High alarm 1 FL Low alarm 1 DB Dev. band alarm 2 DL Dev. low alarm 2 DH Dev. high alarm 2 NW New alarm			

External Relay Module	Input Adaptor
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 CONTROLS LIMITED

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