

Eurotherm

Helps Improve Process Efficiency, Product Quality, and Minimize Waste

3200 Series Temperature/Process Controllers

The innovative range of 3200 controllers offer precision control of temperature and other process variables together with many advanced features not normally found in this class of controller.

Product at a Glance -

The emphasis is on ease of use. A simple "Quick Start" code is used to configure all the functions essential for controlling your process. This includes input sensor type, measurement range, control options, and alarms, making "Out the Box" operation truly achievable. In operator mode, every parameter has a scrolling text message describing its function and is available in English, German, French, Spanish or Italian. More advanced features are configured using Eurotherm iTools, a PC-based configuration wizard which is an easy to use and instructive guide to all the functions in the controller.

Heater Current Monitoring

A current transformer input provides display of the heater current and a health check on the load. Partial load failure, heater open circuit and SSR detected faults are displayed as scrolling alarm messages as well as providing an alarm output. On the 3208 and 3204 a front panel ammeter displays the heater current.

Setpoint Programmer

Heat treatment profiles can be programmed using the 8-segment programmer. Holdback ("guaranteed soak") can be used at the beginning of each segment. A digital event output can be triggered in any segment to initiate actions within the process.

Custom Text Messaging

Custom messages can be created with Eurotherm iTools and downloaded to the 3200 controller to display when an event, alarm or process condition occurs. This provides the operator with good visibility of the status of the process.



- 8 Segment programmer
- Heater failure detection
- Current monitoring
- Internal timer
- Scrolling text messages
- Recipes
- Modbus comms
- Modbus SP retransmission
- Analog retransmission
- Remote setpoint
- Help text
- Type approved to EN14597 TR, EAC (CUTR), CCC (Exempt)
- Multi-language support (English, French, German, Spanish, and Italian)

3200 Series Temperature/Process **Controllers Specification**

Remote Setpoint

An option exists for the 3200 controller to have a Remote Analog Input. This can be either volts or mA and is used to allow the setpoint to be generated by a master controller or PLC.

Recipes

Using Eurotherm iTools, recipes can be created that may be used to change the operating parameters of the 3200 controller simply by selecting a new recipe using the HMI or digital input. This is very useful where multiple products are processed using the same controller but require different parameters to be set.

Timer

An internal timer is configurable as an interval timer, delay timer, or to provide a soft start for hot runner control.

Setpoint Retransmission

Sending the setpoint or other parameters from the 3200 controller to slave devices can be achieved either using conventional analog communications or using Master Modbus communications. Master Modbus in the 3200 controller allows a broadcast of a single parameter to the network.

A typical application is a setpoint being retransmitted to a number of slave controllers in a multi-zone furnace.

Modbus Communications

All units support both EIA232 and 2-wire EIA485 communications using the Modbus protocol. The 3216 supports 4-wire EIA485.

Configuration Adaptor

Eurotherm iTools configuration to all 3200 controllers can be achieved by using a USB configuration adaptor. It provides Eurotherm iTools with the ability to communicate with and configure devices without the



need for any power being connected.

Eurotherm iTools Wizard

Used to simplify the set up of 3200 series controllers. The wizard guides the user through the configuration process with interactive help and graphical demonstrations of features.



General		
Environmental Performance		
Temperature limits:	Operation: Storage:	0 to 55° C –10 to 70° C
Humidity limits:		5 to 90% RH non condensing
Panel sealing:	g	IP65, Nema 12
Shock:		BS EN61010
Vibration:		2 g peak, 10 to 150 Hz
Altitude:		<2000 metres
Atmospheres:		Not suitable for use in explosive or corrosiv
EEPROM		atmosphere*
EEPROW		Rated lifetime 100,000 write operations
Electromagnetic Compatibil	ity (EMC)	
Emissions and immunity:		BS EN61326
Electrical Safety		
BS EN61010:		Installation cat. II; Pollution degree 2
B3 EN01010.		Installation cat. II, Pollution degree 2
POLLUTION DEGREE 2	or equipment of ive pollution of	on nominal 230V mains is 2500V. ccurs. Occasionally, however, a temporary Il be expected.
EN14597 TR APPROVAL Registration Number TR122	29.	
Physical		
Dimensions:	3216:	48 W X 48 H X 90 Dmm
	3208:	48 W X 96 H X 90 Dmm
	3204:	96 W X 96 H X 90 Dmm

Dimensions:	3216: 3208: 3204:	48 W X 48 H X 90 Dmm 48 W X 96 H X 90 Dmm 96 W X 96 H X 90 Dmm		
Weight:	32h8 (horizontal): 3216: 3208:	96 W X 48 H X 90 Dmm 250 g 350 g		
Panel:	3204: 32h8 (horizontal): 3216: 3208: 3204:	420 g 350 g 1/16 DIN mounting 45W x 45Hmm cut out 1/8 DIN mounting 45W x 92Hmm cut out 1/4 DIN mounting 92W x 92Hmm cut out		
Panel depth:	32h8 (horizontal): All:	1/8 DIN mounting 92W x 45Hmm cut out 101mm		
Operator Interface	-			
Type: Main PV display: Lower display	3216, 3208, 3204: 32h8:	LCD TN with backlight 4 digits, green 5 character starburst, green 9 character starburst, green		
Status beacons:	02110.	Units, outputs, alarms, active setpoint		
Power Requirements	3216:	100 to 240 V AC, -15%, +10%,		
	3208, 32h8, 3204:	48 to 62 Hz, max 6 W 24 V AC, -15%, +10% 24 V DC, -15%, +20% ±5% ripple voltage max 6 W 100 to 240 V AC, -15%, +10%, 48 to 62 Hz, max 8 W 24 V AC, -15%, +10% 24 V DC, -15%, +20% ±5% ripple voltage max 8 W		
Approvals		CE, cUL liste d (file E57766), Gost-R May be field calibrated to control instrument accuracy required in AMS2750E EN14597 TR CCC Exempt EAC (CUTR)		
Transmitter PSU (not 3 Rating: Isolation:	3216)	24 V DC, >28 mA, <33 mA 264 V AC double insulated		
Communications				
Serial Communicati Protocol:	ons Option	Modbus RTU slave Modbus RTU Master broadcast (1 parameter)		
Isolation: Transmission standard:		264V ac, double insulated EIA232 or EIA485 (2-wire) EIA485 (4-wire) on 3216 only		

264 V AC double insulated from PSU and comms

Module code C provides full 264 V AC double

Control outputs, retransmission

Process Variable Input		Resolution: Isolation:
Calibration accuracy: Sample rate:	$<\pm 0.25\%$ of reading ± 1 LSD (Note 1) 4 Hz (250 ms)	Isolation:
Isolation:	264 V AC double insulation from the PSU and communication	Functions:
Resolution (µV): Resolution (effective bits):	<0.5 µV with 1.6 sec filter	OP 3 (not o
Linearisation accuracy:	< 0.1% of reading	Rating:
Drift with temperature:	<50 ppm (typical) <100 ppm (worst case)	Accuracy:
Common mode rejection:	48-62 Hz, >-120 db 48-62 Hz, >-93 dB	Resolution: Isolation:
Series mode rejection: Input impedance:	40-02 ΠZ, >-93 GB 100 MΩ	Functions:
Cold junction compensation:	>30:1 rejection of ambient change	Remote S
External cold junction: Cold junction accuracy:	Reference of 0° C <±1° C at 25° C ambient	Calibration
Linear(process) input range:	-10 to 80 mV, 0 to 10 V with 100 KΩ/806 Ω external divider module	Sample rate
Thermocouple types:	K, J, N, R, S, B, L, T, C, custom download (Note 2)	Isolation: Resolution:
Resistance thermometer types:	,	Resolution (Drift with ter
Bulb current:	0.2 mA	Common m
Lead compensation: Input filter:	No compensation error for 22 Ω in all leads Off to 59.9 s	Series mod
Zero offset:	User adjustable over full range	Input imped
User calibration:	2-point gain & offset	Normal inpu Max input ra
AA Relay		Software
Type: Rating:	Form C (changeover) Min 100 mA @ 12 V DC, max 2 A @ 264 V AC	Control
Functions:	resistive Control outputs, alarms, events	Number of Loop upda
Current Transformer Input		Control typ
Input range:	0-50 mA rms, 48/62 Hz	Cooling typ Modes:
Calibration accuracy:	10 Ω burden resistor fitted inside module <1% of reading (typical),	Overshoot Alarms
Isolation:	<4% of reading (worst case) By using external CT	
Input impedance:	<20 Ω	Number: Type:
Measurement scaling: Functions:	10, 25, 50 or 100 Amps Partial load failure, SSR detected fault	1900.
Digital Input (DigIn A/B, B		Latching: Output ass
Contact closure:	Open >600 Ω , closed <300 Ω	Other Statu
Input current:	<13 mA	Functions:
Isolation:	None from PV or system 264 V AC double insulated from PSU and	
	communications	Output ass
Functions:	Includes alarm acknowledge, SP2 select,	Setpoint Pre
	manual keylock, timer functions standby select, RSP select	Program fu
Logic I/O Module		Start mode Power fail r
		Guarantee
Output		Timer
Rating:	ON 12 V DC @ <44 mA, OFF <300 mV @ 100 µA	Modes:
	None from PV or system	Wiodos.
Isolation:		
Isolation:	264 V AC double insulated from PSU and	
Isolation: Functions:		Current Mo
Functions:	264 V AC double insulated from PSU and communications	
Functions: Digital Input Contact closure:	264 V AC double insulated from PSU and communications Control outputs, alarms, events Open >500 Ω, closed <150 Ω	Alarm type
Functions: Digital Input	264 V AC double insulated from PSU and communications Control outputs, alarms, events Open >500 Ω, closed <150 Ω None from PV or system 264 V AC double insulated from PSU and	Alarm type Indication t
Functions: Digital Input Contact closure: Isolation:	264 V AC double insulated from PSU and communications Control outputs, alarms, events Open >500 Ω, closed <150 Ω None from PV or system 264 V AC double insulated from PSU and communications	Current Mon Alarm type Indication t Custom Me Number:
Functions: Digital Input Contact closure:	264 V AC double insulated from PSU and communications Control outputs, alarms, events Open >500 Ω, closed <150 Ω None from PV or system 264 V AC double insulated from PSU and communications Includes alarm acknowledge, SP2 select, manual keylock, timer functions standby select,	Alarm type Indication t Custom Me
Functions: Digital Input Contact closure: Isolation: Functions:	264 V AC double insulated from PSU and communications Control outputs, alarms, events Open >500 Ω, closed <150 Ω None from PV or system 264 V AC double insulated from PSU and communications Includes alarm acknowledge, SP2 select,	Alarm type Indication t Custom Me Number: No of char
Functions: Digital Input Contact closure: Isolation: Functions: Relay Output Channels	264 V AC double insulated from PSU and communications Control outputs, alarms, events Open >500 Ω, closed <150 Ω None from PV or system 264 V AC double insulated from PSU and communications Includes alarm acknowledge, SP2 select, manual keylock, timer functions standby select, RSP select	Alarm type Indication to Custom Me Number: No of chara Languages Selection:
Functions: Digital Input Contact closure: Isolation: Functions: Relay Output Channels Type:	264 V AC double insulated from PSU and communications Control outputs, alarms, events Open >500 Ω, closed <150 Ω None from PV or system 264 V AC double insulated from PSU and communications Includes alarm acknowledge, SP2 select, manual keylock, timer functions standby select, RSP select Form A (normally open) Min 100 mA @ 12 V DC, max 2 A @264 V AC	Alarm type Indication t Custom Me Number: No of char Languages Selection: Recipes
Functions: Digital Input Contact closure: Isolation: Functions: Relay Output Channels Type: Rating:	264 V AC double insulated from PSU and communications Control outputs, alarms, events Open >500 Ω, closed <150 Ω None from PV or system 264 V AC double insulated from PSU and communications Includes alarm acknowledge, SP2 select, manual keylock, timer functions standby select, RSP select Form A (normally open) Min 100 mA @ 12 V DC, max 2 A @264 V AC resistive	Alarm type Indication f Custom Me Number: No of char Languages Selection:
Functions: Digital Input Contact closure: Isolation: Functions: Relay Output Channels Type: Rating: Functions:	264 V AC double insulated from PSU and communications Control outputs, alarms, events Open >500 Ω, closed <150 Ω None from PV or system 264 V AC double insulated from PSU and communications Includes alarm acknowledge, SP2 select, manual keylock, timer functions standby select, RSP select Form A (normally open) Min 100 mA @ 12 V DC, max 2 A @264 V AC	Alarm type Indication f Custom Me Number: No of char Languages Selection: Recipes Number:
Functions: Digital Input Contact closure: Isolation: Functions: Relay Output Channels Type: Rating: Functions: Triac Output	264 V AC double insulated from PSU and communications Control outputs, alarms, events Open >500 Ω, closed <150 Ω None from PV or system 264 V AC double insulated from PSU and communications Includes alarm acknowledge, SP2 select, manual keylock, timer functions standby select, RSP select Form A (normally open) Min 100 mA @ 12 V DC, max 2 A @264 V AC resistive Control outputs, alarms, events	Alarm type Indication f Custom Me Number: No of char Languages Selection: Recipes Number: Selection: Notes 1. Calibrati
Functions: Digital Input Contact closure: Isolation: Functions: Relay Output Channels Type: Rating: Functions: Triac Output Rating:	264 V AC double insulated from PSU and communications Control outputs, alarms, events Open >500 Ω, closed <150 Ω None from PV or system 264 V AC double insulated from PSU and communications Includes alarm acknowledge, SP2 select, manual keylock, timer functions standby select, RSP select Form A (normally open) Min 100 mA @ 12 V DC, max 2 A @264 V AC resistive Control outputs, alarms, events	Alarm type Indication f Custom Me Number: No of char Languages Selection: Recipes Number: Selection: Notes 1. Calibrati
Functions: Digital Input Contact closure: Isolation: Functions: Relay Output Channels Type: Rating: Functions:	264 V AC double insulated from PSU and communications Control outputs, alarms, events Open >500 Ω, closed <150 Ω None from PV or system 264 V AC double insulated from PSU and communications Includes alarm acknowledge, SP2 select, manual keylock, timer functions standby select, RSP select Form A (normally open) Min 100 mA @ 12 V DC, max 2 A @264 V AC resistive Control outputs, alarms, events	Alarm type Indication to Custom Me Number: No of char Languages Selection: Recipes Number: Selection: Notes 1. Calibrati linearizai 2. Contact
Functions: Digital Input Contact closure: Isolation: Functions: Relay Output Channels Type: Rating: Functions: Triac Output Rating: Isolation:	264 V AC double insulated from PSU and communications Control outputs, alarms, events Open >500 Ω, closed <150 Ω None from PV or system 264 V AC double insulated from PSU and communications Includes alarm acknowledge, SP2 select, manual keylock, timer functions standby select, RSP select Form A (normally open) Min 100 mA @ 12 V DC, max 2 A @264 V AC resistive Control outputs, alarms, events	Alarm type Indication to Custom Me Number: No of chara Languages Selection: Recipes Number: Selection:

0-20 mA into <500 Ω \pm (<1% of Reading + <100 $\mu A)$

Rating:

Accuracy:

P 3 (not on 3216) 0-20 mA into <500 Ω Rating: ±(<0.25% of Reading + <50 μA) Accuracy: 13.6 bits Resolution: solation: 264 V AC double insulated unctions Control outputs, retransmission Remote Setpoint Input <±0.25% or reading ±1LSD alibration accuracy: ample rate: 4 Hz (250 ms) olation: 264 V AC double insulation from instrument esolution: <0.5 mV (for 0-10 V) or <2 µA (for 4-20 mA) esolution (effective bits): >14 bits <50 ppm (typical) <150 ppm (worst case) rift with temperature: 48-62 Hz, >-120 dB 48-62 Hz, >-90 dB ommon mode refection: eries mode rejection: put impedance: Voltage: 223 KΩ and Current: 2R49 ormal input range: 0 to 10 V and 4 to 20 mA ax input range: -1 V to 11 V and 3.36 mA to 20.96 mA Software Features ontrol Jumber of loops: 1 250ms .oop update: Control types: PID, ON/OFF, VP Cooling types: Linear, fan, oil, water Aodes: Auto, manual, standby, forced manual Overshoot inhibition: High, low larms Jumber: 4 Absolute high & low, deviation high, low or band, ype: rate of change atching: Auto or manual latching, non-latching, event only Dutput assignment: Up to 4 conditions can be assigned to one O/P ther Status Outputs Including sensor break, manual mode, timer status, unctions: loop break, heater diagnostics, program event Up to 4 conditions can be assigned to one O/P Dutput assignment: etpoint Programmer Program function: 1 program x 8 segments with 1 event output (Note 4) Servo from PV or SP Start mode: ower fail recovery: Continue at SP or Ramp back from PV Guaranteed soak: Inhibits dwell timing until PV within limits imer odes: Dwell when setpoint reached Delayed control action Soft start limits power below PV threshold urrent Monitor Alarm types: Partial load failure, over current, SSR short circuit, SSR open circuit Numerical or ammeter ndication type: ustom Messages Jumber: 15 scrolling text messages Vo of characters: 127 characters per message max anguages: English, German, French, Spanish, Italian Selection: Active on any parameter status using conditional command ecipes Jumber: 5 recipes with 38 parameters Selection: HMI interface, communications or digital I/O otes Calibration accuracy quoted over full ambient operating range and for all input

13.5 bits

isolated

linearization types.

 Contact Eurotherm for details of availability of custom downloads for alternative sensors.

- 3. Voltage output can be achieved by external adaptor.
- 4. By using recipes five SP programs can be stored.

2

Order Code Hardware/Options Coding

3

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8

Basic Pro	duct
3216	48 x 48mm unit
3208	48 x 96mm unit
32h8	96 x 48mm horizontal unit
3204	96 x 96mm unit
1 Function	on
CC	Standard controller
CP	Standard programmer
VC	Motorized valve controller
VP	Motorized valve programmer
2 Supply	Voltage
VH	85-264 V AC

24 V AC/DC

VL

1

3 Outputs					
3216					
	OP1	OP2			
XXXX	None fitte	d None fi	tted		
LXXX	Logic	None fi	tted		
LRXX	Logic	Relay			
RRXX	Relay	Relay			
LLXX	Logic	Logic			
LDXX	Logic	0-20 m	A		
DDXX	0-20 mA	0-20 m	A		
DRXX	0-20 mA	Relay			
RCXX	Relay		d 0-20 mA		
LCXX	Logic	Isolated	d 0-20 mA		
DCXX	0-20 mA	Isolated	d 0-20 mA		
LTXX	Logic	Triac			
TTXX	Triac	Triac			
3208/32	h8/3204				
	OP1	OP2	OP3		
LRRX	Logic	Relay	Relay		
RRRX	Relay	Relay	Relay		
LLRX	Logic	Logic	Relay		
LRDX	Logic	Relay	0-20 mA		
RRDX	Relay	Relay	0-20 mA		
DDDX	0-20 mA	0-20 mA	0-20 mA		
LLDX	Logic	Logic	0-20 mA		
LDDX	Logic	0-20 mA	0-20 mA		
DRDX	0-20 mA	Relay	0-20 mA		
Not avai	ilable with I	Low Volta	ge PSU		
LTRX	Logic	Triac	Relay		
TTRX	Triac	Triac	Relay		
LTDX	Logic	Triac	0-20 mA		
TDDX	Triac	0-20 mA	0-20 mA		

4 AA Relay (OP4)			
Х	Not fitted		
R	Relay		
5 Option	s Board		
XXX	Not fitted		
XXL	Logic input		
XCL	CT + Logic IP		
2XL	RS232 Comms + Logic IP		
4XL	2-wire RS485 comms +		
	Logic IP		
2CL	RS232 Comms CT +		
	Logic IP		
4CL	2-wire RS485 Comms CT		
	+ Logic IPP		
RCL	Remote SP CT + Logic IP		

9

10

11

ENG

FRA

GER

SPA

ITA

9 Warranty

12

8 Manual Language

English

French

German

Spanish

Italian

Remote SP CT + Logic IP		certifica
5	11 Custo	un Lohol
Color		
Green	XXXXX	None
Silver	12 0	
Washdown (not 32h8/04)		ials and A
	XXXXX	None
t Language	RES250	250R re

ENG	English
FRA	French
GER	German
SPA	Spanish
ITA	Italian

6 Fascia Color

7 Product Lang

G

S

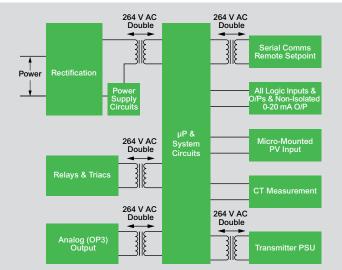
W

XXXXX	Standard
WL005	Extended
10 Certific	ates
XXXXX	None
CERT1	Certificate of Conformity
CERT2	Factory Calibration
	certificate
	•
11 Custor	n Label
XXXXX	None
1.0	
12 Specia	Is and Accessoriess
XXXXX	None
	1
XXXXX	None
XXXXX	None 250R resistor for

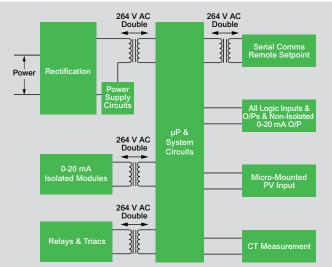
3200 Controller Accessories

HA029714	Installation guide	
HA027986	Engineering manual	
SUB35/ACCESS/249R.1	2.49R Precision resistor	
CTR100000/000	10 A Current transformer	
CTR200000/000	25 A Current transformer	
CTR400000/000	50 A Current transformer	
CTR500000/000	100 A Current transformer	
ITOOLS/NONE/USB U	SB configuration kit	
SUB21/IV10	0-10 V input adaptor	

3208/32h8/3204 Isolation



3216 Isolation



Optional Quick Start Code (Optional)

1 2	3 4 5 6	7 8 9 10 3208/h8 3208/h8 3208/h8	
		/04 only /04 only	
Input Type	3 Output 1 (OP1)	4 Output 2 (OP2)	7-8 Dig Input A, Dig Input B
ermocouple	XX Unconfigured	XX Unconfigured	X Unconfigured
Туре В	Relay, DC, Triac or Logic outputs	Relay, DC, Triac or Logic Outputs	W Alarm acknowledge
Type J	Control	Control	M Manual select
Type K	H Heat (PID)	H Heat (PID)	R Timer/Prog Run
Type L			L Keylock
Type N	C Cool (PID)	C Cool (PID)	P Setpoint 2 select
	J Heat (on/off)	J Heat (on/off)	T Timer/prog Reset
Type R	K Cool (on/off)	K Cool (on/off)	
Type S	Alarm Output	Alarm Output	
Туре Т	Energized in alarm	Energized in alarm	V Recipe 2/1 select
Custom/Type C	0 High alarm	0 High alarm	A Remote up button
	1 Low alarm	1 Low alarm	B Remote down button
Pt100	2 Deviation high	2 Deviation high	G Time/prog Run/reset
ar	3 Deviation low	3 Deviation low	I Timer/prog Hold
0-80 mV			Q Standby select
	4 Deviation band	4 Deviation band	
0-20 mA	Alarm Output	Alarm Output	9 Output 3 (OP3)
4-20 mA	De-energized in alarm	De-energized in alarm	XX Unconfigured
Unconfigured	5 High alarm	5 High alarm	Relay, DC, Triac or Logic Outputs
	6 Low alarm	6 Low alarm	Control
etpoint Limits	7 Deviation high	7 Deviation high	
PV Range		0	H Heat (PID)
Deg C full range	8 Deviation low 9 Deviation band	8 Deviation low 9 Deviation band	C Cool (PID)
Deg F full range			J Heat (on/off)
igrade	DC Outputs	DC Outputs	K Cool (on/off)
<u> </u>	Control	Control	Alarm Output
0 to 100 deg C	H 4-20 mA heating	H 4-20 mA heating	Energized in Alarm
0 to 200 deg C	C 4-20 mA cooling	C 4-20 mA cooling	0 High alarm
0 to 400 deg C	J 0-20 mA heating	J 0-20 mA heating	1 Low alarm
0 to 600 deg C		K 0-20 mA cooling	2 Deviation high
0 to 800 deg C	· · · · · · · · · · · · · · · · · · ·		Ŭ
0 to 1000 deg C	Retransmission	Retransmission	
0 to 1200 deg C	D 4-20 mA setpoint	D 4-20 mA setpoint	4 Deviation band
0 to 1400 deg C	E 4-20 mA process value	E 4-20 mA process value	Alarm Output
0 to 1600 deg C	F 4-20 mA output	F 4-20 mA output	De-Energized in Alarm
9 0 to 1800 deg C	N 0-20 mA setpoint	N 0-20 mA setpoint	5 High alarm
Ű	Y 0-20 mA process value	Y 0-20 mA process value	6 Low alarm
enheit	Z 0-20 mA output	Z 0-20 mA output	7 Deviation high
2 to 212 deg F			
32 to 392 deg F	Logic Input	5 AA Relay (OP4)	8 Deviation low 9 Deviation band
32 to 752 deg F	W Alarm acknowledge	XX Unconfigured	
32 to 1112 deg F	M Manual select	Ŭ	DC Outputs
32 to 1472 deg F	R Timer/Prog Run	Relay, DC, Triac or Logic Outputs	Control
32 to 1832 deg F	L Keylock	Control	H 4-20 mA heating
32 to 2192 deg F	P Setpoint 2 select	H Heat (PID)	C 4-20 mA cooling
32 to 2552 deg F	T Timer/prog Reset	C Cool (PID)	J 0-20 mA heating
32 to 2912 deg F	U Remote SP select	J Heat (on/off)	K 0-20 mA cooling
32 to 3272 deg F	V Recipe 2/1 select	K Cool (on/off)	Ű
Unconfigured	A Remote up button	Alarm Output	Retransmission
Ghoonngaroa	B Remote down button	Energized in Alarm	D 4-20 mA setpoint
			E 4-20 mA process value
	G Time/prog Run/reset	0 High alarm	F 4-20 mA output
	I Timer/prog Hol	1 Low alarm	N 0-20 mA setpoint
	Q Standby select	2 Deviation high	Y 0-20 mA process value
		3 Deviation low	Z 0-20 mA output
		4 Deviation band	
		Alarm Output	10 Lower Display
		De-Energized in Alarm	X Unconfigured
			T Setpoint
		5 High alarm	
		6 Low alarm	Ű,
		7 Deviation high	· Output power //
		8 Deviation low	R Time remaining
		9 Deviation band	E Elapsed time
			1 1 st alarm setpoint
		6 CT Input Scaling	D Dwell/ramp — time/target
		XX Not fitted	C SP with output meter
		1 10 Amps	M SD with ommotor

1

2 5

6

10 Amps

25 Amps

50 Amps

100 Amps

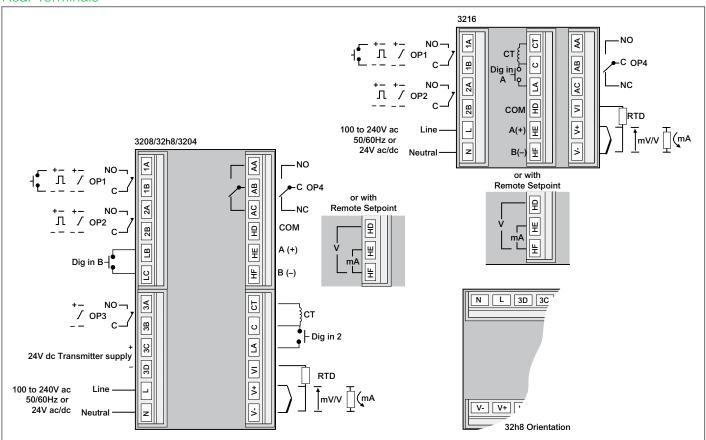
- SP with ammeter
 - Load amps None

М

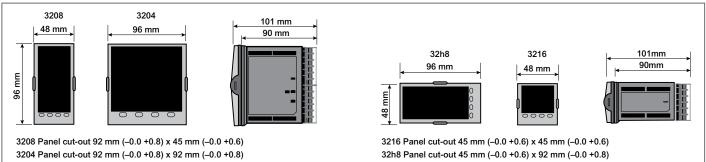
A N

3200 Series Temperature/Process **Controllers** Specification

Rear Terminals



Mechanical Details





Life Is On Eurotherm

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