Linear input scaling (-9.99 to +80.09mV). These parameters appear after in Pt whenever a linear mV input is configured. This allows the low and high displayed values to be set up against the corresponding mV inputs. Default setting Customer setting Displayed value InPL mV input low Loft 50 mV input nigh URLL Displayed value low Flectrical 50 UAL H Displayed value high InPL InPH Input

Alarm Configuration

Alarms are used to alert an operator when a pre-set level or condition has been exceeded. They are normally used to switch a relay output - to provide interlocking of the machine or plant or external audio or visual indication of the condition.

The FL list configures the three internal 'soft' alarms and causes the appropriate alarm message to be flashed in the HOME display.

Soft Alarms are a visual warning message within the indicator. To attach a soft alarm to activate a relay see 'Relay outputs 1 and 2 Configuration'.

AL	Alarm type conf	Options	Meaning Default setting				Customer setting		
AL I	Alarm 1 type	OFF	The alarm is disabled	PL I, RLZ,	A₁a	rm nun	nber		
	1	FSL	Full Scale Low alarm The PV exceeds a set low level	and RL∃	1	2	3		
		F5H	Full Scare High alarm The PV exceeds a set high level	As order code,					
	1	rRE.	Rate of change, -1999 to 1999 display units per min. 0 = OFF	otherwise DFF					
		rRS	Rate of change, -1999 to 1999 display units per sec. 0 = OFF						
Ltch	Alarm atching	no	Non-latching	As order code,					
		465	Latched with automatic resetting (Note 1)	otherwise no					
		m∄∩	Latched with manual resetting (Note 2)		!				
bLac	Alarm <u>ploc</u> king	מת	No blocking	no					
		YĒ5	Blocked until first good. (Note 3)		i				

The above sequence is repeated for: AL 2 (alarm 2) and AL 3 (alarm 3)

Notes:

- 1. Automatic resetting means that, once the alarm has been acknowledged, it will automatically clear when it is no longer true.
- 2. Manual resetting means that the alarm must first clear before it can be reset.
- In blocking mode, after power on, the process value must first enter a good state before the alarm becomes active. This is particularly useful for low alarms which can be 'blocked' while the process is warming up.

Relay outputs 1 and 2 Configuration

The RR and BR lists allow the three internal 'soft' alarms to be attached to relay outputs 1 and 2 respectively.

Note: AR is the terminal number for output 1 and 3R is the terminal number for output 2.

RA	Relay output 1 configuration	Options	Meaning	Default setting		Customer setting	
38	Relay output 2 configuration			RA	39	AR	∃R
ı d	Identity of output	rELY	Relay	rELY	FELY	Read	only
Func	Function of output	nonE	None Output disabled Digital alarm output	e: C	q. C		
SEn5	Sense of the output.	ו עח טפר	Normat (relay energised in alarm) Inverted (relay de-energised in alm)	lnu	Inu		

To Attach Alarms to the Relay Outputs.

Any of the following alarms can be combined to operate the selected relay output. Press if of to select a particular alarm. Press if or it is select YE5 if you want it to operate the relay. Select on to disconnect a given alarm.

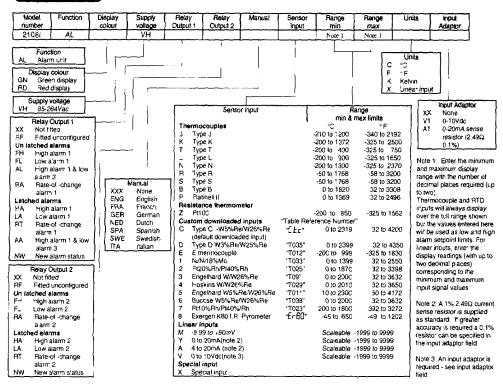
			Altaching alarms to a relay	Output 1 Output 2	Output 1	Output 2
1	Alarm <u>1</u>	YES/no ~	Relay	As order code		
2	Alarm 2	YE5 / na	nor Output	otherwise na.		
∃	Alarm 3	YES/no -	OR) di [5br defaults		
5br	<u>S</u> ensor <u>br</u> eak alarm	YES/no -		to YES on both		
υm	New alarm	YES/na -		outputs		

^{*} The last three letters will correspond to the alarm type set in the AL list. If the alarm is disabled, AL Tor AL 2 or AL 3 will be shown.

Passwords

PRSS	Passwords configuration	Range	Default setting	Customer setting
REEP	Full and Edit evel password	0-9999	1	
[nFP	Configuration evel password	0-9999	2	
CRLP	User calibration password	D-9999	3	





TECHNICAL SPECIFICATION

Display	4 d'git, red or green, 15.9mm high characters
Calibration accuracy	±0.25% of reading, cr ± 1°C, or ± 1LSD whichever is the greater
Cold juriction compensation	>15 to 1 rejection of ambient temperature change
Panel sealing	IP54
Operating ambients	0 to 55°C. Ensure that the enclosure is acequately ventilated. 5 to 95%RH, non condensing
Storage temperature	-30°C to +75°C.
Atmosphere	Not suitable for use above 2000m or in explosive or corrosive atmospheres
Power supply	100 to 240Vac -15%, +10%, 48 to 62Hz, maximum consumption 5Watts
Relay rating (solated)	Maximum: 264Vac, 2A resistive. Minimum operating voltage and current: '2Vdc, 100mA
Wire sizes	Use a minimum of 0.5mm ² or 16awg wire for plant connections.
Over current protection	Use independent 2A fuses for the indicator supply and relay cutputs. Suitable fuses are EN60127 (type T)
Acknowledge/keylock input	Open circuit voltage: 22 volts. Nominal short circuit current: 20mA. Non-isolated from PV input.
Electrical safety	Meets EN 61010 (Voltage transients on the power supply must not exceed 2.5kV). Pollution degree 2.
Isolation:	All isolated inputs and outputs have reinforced insulation to protect against electric shock. (See live sensor note

SAFETY AND EMC INFORMATION

Safety

This indicator complies with the European Low Voltage Directive 73/23/EEC, amended by 93/68/EEC, by the application of the safety standard EN 61010.

Electromagnetic compatibility

This indicator conforms with the essential protection requirements of the EMC Directive 89/336/EEC, amended by 93/68/EEC, by the application of a Technical Construction File. This indicator satisfies the general requirements of the industrial environment defined in EM 50081-2 and EM 50082-2.

GENERAL

The information contained in these instructions is subject to change without notice. While every effort has been made to ensure the accuracy of the information, Eurothern Controls shall not be held liable for errors contained herein.

Unpacking and storage

The packaging should contain the indicator, two panel retaining clips, a 2.49Ω current sense resistor, a peel off label set and this instruction leaflet.

If the packaging or the indicator are damaged, do not install it but centact the company where you purchased the product.

SERVICE AND REPAIR

This indicator has no user serviceable parts. Contact your nearest Eurotherm Controls agent for repair.

Caution: Charged capacitors

Before removing the indicator from its sleeve, switch off the supply and wait two minutes to allow capacitors to discharge. Failure to observe this precaution may damage the indicator or cause some discomfort to the user.

Electrostatic discharge precautions

When the indicator is removed from its sleeve, it is vulnerable to damage by electrostatic discharge from someone handling the indicator. To avoid this, before handling the unplugged indicator discharge yourself to ground.

Cleaning

Do not use water or water based products to clean labels or they will become illegible. Isopropyl alcohol may be used to clean labels. A mild soap solution may be used to clean other exterior surfaces of the product.

Safety Symbols

The following safety symbols are used on the controller:



Caution, (refer to the accompanying documents)

Functional earth (ground) terminal

Personnel

Installation must be carried out by qualified personnel.

Enclosure of live parts

The indicator must be installed in an enclosure to prevent hands or metal tools touching parts that may be electrically live.

Caution: Live sensors

The alarm acknowledge/keylock inputs are electrically connected to the sensor input (e.g. thermocouple). In some installations the temperature sensor may become live. The indicator is designed to operate under these conditions, but you must ensure that this will not damage other equipment connected to the acknowledge/keylock inputs and that service personnel do not touch this connection while it is live. With a live sensor, all cables, connectors and switches for connecting the sensor and non-isolated inputs and outputs must be mains rated.

INTERNATIONAL SALES AND SERVICE

EUROTHERM CONTROLS LTD Faraday Close, Durrington, Worthing, West Sussex BN13 3PL

Telephone Sales: (01903) 695888 Technical: (01903) 695777 Service: (01903) 695444 Fax (01903) 695666

Countries not listed - enquiries/orders to: Eurotherm Controls Limited, Export Dept, Faraday Close, Durrington,

Worthing, West Sussex, BN13 3PL
Telephone (01903) 268500
Fax (01903) 265982

Fax (01903) 265982 Telex 87114 EUROWG G AUSTRALIA

Eurotherm Pty. Ltd.
Telephone Sydney (+61 2) 477 7022
Fax (+61 2) 477 7756

AUSTRIA Eurotherm GmbH Telephone Vienna (+43 1) 798 7601 Fax (+43 1) 798 7605 Telex 047 1132000 EIAUT A

BELGIUM Eurotherm B.V. Telephone Antwerp (+32 3) 322 3870 Fax (+32 3) 321 7363 DENMARK

Eurotherm A/S Telephone Copenhagen (+45 31) 871622 Fax (+45 31) 872124

FRANCE

Eurotherm Automation SA Telephone Lyon (+33 478) 664500 Fax (+33 478) 352490 Telex 042 380038 EUROTERM F

GERMANY Eurotherm Regler GmbH Telephone Limburg (+49 6431) 2980 Fax (+49 6431) 298119

Fax (+49 6431) 298119
Telex 041 484791 EUROT D
HONG KONG
Eurotherm Limited
Telephone Hong Kong (+852) 2873 3826

Fax (+852) 2870 0148
Telex 0802 69257 EIFEL HX
INDIA
Eurotherm India Limited

Eurotherm India Limited Telephone Madras (+9144) 4928129 Fax (+9144) 4928131

Wiring

Wire the indicator in accordance with the wiring data given in these instructions. Take particular care not to connect AC supplies to the low voltage sensor input or logic outputs. Only use copper conductors for connections, (except thermocouple). Ensure that the installation complies with local wiring regulations.

Power Isolation

The installation must include a power isolating switch or circuit breaker that disconnects all current carrying conductors. The device should be mounted in close proximity to the indicator, within easy reach of the operator and marked as the disconnecting device for the indicator.

Voltage rating

The maximum continuous voltage applied between any connection and ground must not exceed 264Vac.

For the above reason the indicator should not be wired to a three phase supply with an unearthed star connection. Under fault conditions such a supply could rise above 264Vac with respect to ground and the product would not be safe.

Conductive pollution

Electrically conductive pollution must be excluded from the cabinet in which the indicator is mounted. For example, carbon dust is a form of electrically conductive pollution. Where condensation is likely, for example at low temperatures, include a thermostatically controlled heater in the cabinet.

Installation requirements for EMC

- For general guidance refer to Eurotherm Controls EMC Installation Guide, HA025464.
- It may be necessary to fit a filter across the relay output to suppress conducted emissions. The filter requirements will depend on the type of load. For typical applications we recommend Schaffner FN321 or FN612.

Routing of wires

To minimise the pick-up of electrical noise, the sensor input wiring should be routed away from high-current power cables. Where it is impractical to do this, use shielded cables with the shield grounded at both ends.

NORWAY

SWEDEN

IRELAND Eurotherm Ireland Limited Telephone Naas (+353 45) 879937 Fax (+353 45) 875123

ITALY
Eurotherm SpA
Telephone Como (+39 31) 975111
Fax (+39 31) 977512
Telex 380893 EUROTH I

JAPAN Eurotherm Japan Limited Telephone Tokyo (+81 3) 33702951 Fax (+81 3) 33702960

KOREA Eurotherm Korea Limited Telephone Seoul (+82 2) 5438507 Fax (+82 2) 545 9758 Telex EIKOR K23105

NETHERLANDS Eurotherm B.V. Telephone Leiden (+31 71) 54| 1841 Fax (+31 71) 54|14526

NEW ZEALAND Eurotherm Limited Telephone Auckland (+64 9) 358 8106 Fax: (+64 9) 358 1350 Eurotherm A/S Telephone Oslo (+47 66) 803330 Fax (+47 66) 803331

SPAIN Eurotherm España SA Telephone (+34 1) 6616001 Fax (+34 1) 6619093

Eurotherm AB Telephone Maimo (+46 40) 384500 Fax (+46 40) 384545

SWITZERLAND Eurotherm Produkte (Schweiz) AG Telephone Zurich (+41 1) 8103646 Fax (+41 1) 8108920

UNITED KINGDOM Eurotherm Controls Limited Telephone Worthing (+44 1903) 268500 Fax (+44 1903) 265982

U.S.A
Eurotherm Controls Inc.

Telephone Reston (+1 703) 471 4870 Fax (+1 703) 787 3436

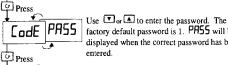
CONFIGURING THE INDICATOR

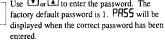
To select configuration level

conf

Coto

Press to reach the Access List Heading.





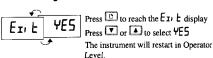


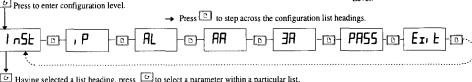
Use or to select pank

Select configuration level to change:

- The display units
 - The input sensor type
- The scaling of linear inputs
- The alarm configuration
- The relay output configuration
- The passwords.

To Exit Configuration level





🕝 Having selected a list heading, press 🕝 to select a parameter within a particular list.

I nSE	Instrument configuration list	Options	Meaning	Default setting	Customer setting
uni È	Display units	ام ا	Çelsius	Defined by the	
		ot.	<u>F</u> ahrenheit	ordering code,	
		₽ _b	Kelvin	otherwise DE	
		nanE	None (for linear inputs)		
dECP.	Decimal places in display	UUUU	None	Defined by the	
		תחחח	One	ordering code,	1
		חתחת	Two	otherwise nnnn	
ЯсЬи	Front panel <u>Ac</u> k/Reset <u>bu</u> tton enable	YES	YE5 = Button enabled	YES	
		по	na = Button disabled		

ı P	Sensor Input configuration list	Options	Meaning		Default setting	Customer setting
, nPt	Input type	JŁc	<u>J</u> therm	ocouple	Defined by the	
		h-Ec	K therm	ocouple	ordering code	
		LEc	<u>L</u> therm	ocouple	otherwise ⊮ Łc	
		r£c	R therm	ocouple		
		b£c	B therm	ocouple	* If a different	
	NOTE:	n£c	N therm	ocouple	custom input is	
	After selecting an input type, do	t tc	I therm	ocouple	supplied, [£c will	
	not forget to adjust the setpoint	5£c	S therm	ocouple	be replaced by the	
	limits in Full Access level.	PL 2	<u>Pl</u> atinell	Ш	table reference	
		rEd	100Ω PI	atinum resistance thermometer	number listed on	}
		[Ec	<u>C</u> ustom	input C thermocouple = default*	page 7, Ordering	
		mU	Linear <u>n</u>	illi <u>v</u> olt	Code	
	Cold junction compensation	Auto	<u>Auto</u> ma	tic	Auto	
	(CJC does not appear for ⊪U	000	0°C exte	ernal reference		
	orrEd inputs. FormU see	450[45°C external reference			
	'Linear input scaling' on page 6)	50°C	<u>50°C</u> ex	ternal reference		
mΡ	Sensor break input impedance	OFF	No sens	or break (linear inputs only)	Auto	
	threshold	Auto	1.5ΚΩ	If the sensor input exceeds		
		Н,	5ΚΩ	this value, the sensor break		
		H, H,	15KΩ	alarm will be activated.		

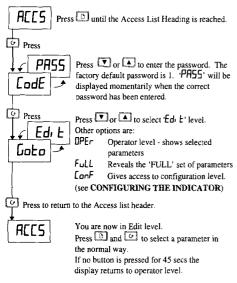
..... Continued on the next page

TO HIDE, REVEAL AND PROMOTE PARAMETERS

The Pra (Promote) option

Up to twelve commonly used parameters can be 'promoted' into the HOME list. This will give the operator quick access to them by simply pressing the button. This feature, used in combination with 'hide' and 'read only', allows you to organise the way in which you want your indicator formatted.

Select EDIT level to hide, reveal or promote parameters as below:



Edit Level Example:



High alarm 2 has been selected.

When or a is pressed, instead of displaying the parameter value, its availability in Operator level is shown as follows:

level is RLEr H. dE rEAd Pro

The parameter will be alterable The parameter will be hidden. The parameter will be read-only The parameter will be 'promoted' into the HOME list (see below).

Promote Level Example:



Low alarm I has been selected Press or to choose Pra.

The parameter IF5L will now appear in the HOME list. Repeat the procedure for any other parameters you wish to promote. To de-promote a parameter go to Ech. E level, select the parameter from the relevant list and change the choice from Pro back to FILE-, FERD or H. dE.

Returning to Operator level

Repeat the above procedure for all the parameters you wish to hide, promote, or make read-only then return to operator level:

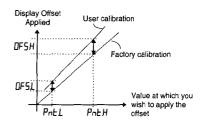


USER CALIBRATION

Your indicator has been calibrated for life against known reference sources in the factory. User calibration allows you to apply offsets to compensate for sensor and other system errors. You can apply a simple fixed offset over the whole display range using the parameter DF5 in the 1 P list, or alternatively, you may apply a 2-point calibration as follows:

- Press until you reach the Plist
- Press until you reach the LALP parameter
- Press or to enter the password. The factory default password is 3. PR55 will be displayed when correct.
- Press to reach the LAL parameter
- Press or Lo select USEr (FAct will restore the factory calibration)
- Press to select PnLL
- Press or to adjust the value at which you wish to apply the low calibration point offset. (eg zero)
- Press to select 0F5L
- Press or to set the low calibration point offset.
- Repeat the above to select and adjust PnEH and DF5H

The graph below shows the effect of a low and high point offset.



DIAGNOSTIC ALARMS

These warn that a fault exists in either the indicator or the connected devices

Alarm	What it means	What to do about it
EE.Er	Electrically Erasable Memory Error: The value of an operator or configuration parameter has been corrupted.	This fault will automatically take you into configuration level. Check all of the configuration parameters before returning to operator level. Once in operator level, check all of the operator parameters before resuming normal operation. If the fault persists or occurs frequently, contact Eurotherm Confrois.
S.br	Sensor Break: Input sensor is open circuit.	Check that the sensor is correctly connected.
LLLL	Out of range low reading	Check the value of the input
нннн	Out of range high reading	Check the value of the input
Err1	Error 1: ROM self- test fail	Return the indicator for repair
Err2	Error 2: RAM self- test fail	Return the indicator for repair
Err3	Error 3: Watchdog fail	Return the indicator for repair
Err4	Error 4: Keyboard failure Stuck button, or a button was pressed during power up.	Switch the power off and then on without touching any of the indicator buttons.

PARAMETER LISTS

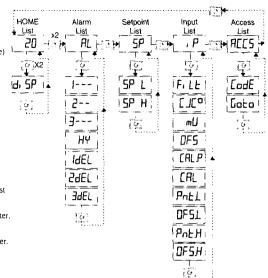
Use these lists to change:

- . The alarm setpoints (as shown on the previous page)
- The alarm setpoint limits
- The input filter time constant
- User calibration.

The diagram shows the full list of possible parameters. Some may not appear, however, because they are dependant upon the configuration of the indicator.

To Select or change parameters

- 1. Press 157 to step across the list headings.
- Press (a) to step down the parameters within a particular list. You will eventually return to the list heading.
- Press Î T to view the value of a selected parameter.
 Keep pressing to decrease the value.
- 4. Press to view the value of a selected parameter. Keep pressing to increase the value.



PARAMETER TABLES

١	HOME	Home List	Selectable options	Default setting	Customer setting
	d: 5P	HOME disp'ay options	See HOME DISPLAY OPTIONS page 2	PU	

AL	Atarm setpoints		Adjustable Range	Default setting	Customer setting
1+	Alarm 1 setpoin	1	Between low and high setpoint limits.	0	
2	Alarm 2 setpoin	1	Note: If the alarm is disabled, the	C	
3	Alarm 3 setpoint		parameter will not appear.	C	
НΥ	Alarm Hysteresis Prevents relay 'chatter' by setting a difference between relay turn ON and relay turn OFF value		! to 9999 display units	!	
IdEL	Alarm 1 de.ay	Used to ignore transient alarms.	DFF to 999.9 seconds	٥	}
2dEL	Aarm <u>2 del</u> ay	Alarms must be true for the set	DFF to 999.9 seconds	D	
3dEL	Aarm 3 delay	time before they become active	OFF to 999.9 seconds	0	

^{*}In place of dashes, the last three letters indicate the alarm type: $FSL = \underline{L}_{OW}$ alarm. $FSH = \underline{H}_{I}$ igh alarm. $FRE = \underline{R}_{A}$ e of change alarm.

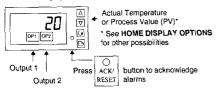
SP	Setpoint limits		Adjustable Range	Default setting	Customer setting
SP L	Alarm setpoint low limit	Prevents alarms from	Between Process Value min and max	As order code	
SP H	Alarm setpoint high rimit	being set out of range		else PV min &	
l		_		max	

L P	Ingut List	Adjustable Range	Default setting	
FILE	Input fitter time constant	UFF to 999.9 seconds	1.6	
L	Reduces display flicker due to process noise.	<u> </u>	l	
[][o	Cold junction compensation temperature (T/C inputs	s on'y) measured at the rear terminals.	Read-only	Read-only
mU	mV input measured at the rear terminals	Read-only	Read-only	
DF5	PV offset Customer set fixed calibration offset which applies over the whole display range	- 1999 to 9999 display units	0	
[ALP	Ca ibration password (See USER CALIBRATION)	D to 9999	3	
ERL	Calibration type	FRct Restores <u>Fact</u> ory calibration USEr <u>User</u> calibration applies	FAct	
PotL	Low calibration point These parameters	- 1999 to 9999 display units	D	
OFSL	Low point offset appear only if	- 1999 to 9999 display units	0	
PobH	High calibration goint USEr calibration	- 1999 to 9999 display units	100	1
OF5.H	High point offset selected	- 1999 to 9999 display units	0	

Į	ACC5	Access list		Used	for re-configuring	g the indicator.	See the nex	t page for details	

OPERATION

Switch on the indicator. After a 3 second self-test sequence, you will see the display shown below. It is called the HOME display.



ALARM INDICATION

There are three internal alarms in the 2108i. They are configurable as high, low or rate of change alarms which alert an operator when a pre-set level (setpoint) has been exceeded. They are flashed as messages in the main display with the following meaning:

Display	Meaning				
1	Alarm_1 is true				
2	Alarm 2 is true				
3	Alarm 3 is true				
Sbr	Sensor Break alarm (open circuit input)				
$\int \mathbf{F} \mathbf{S} \mathbf{L} = \mathbf{F} \mathbf{I}$	of dashes the last three letters indicate the alarm type: ull Scale Low alarm, ull Scale High alarm				

 $\mathbf{H} = \mathbf{F}$ ull \mathbf{S} cale \mathbf{H} igh alarm,

rAL = Rate of change alarm.

If other messages are flashed, see DIAGNOSTIC ALARMS on page 4.

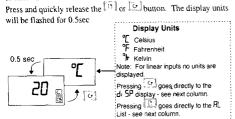
Any combination of the four alarms shown in the table above can operate relay outputs 1 & 2. These would normally provide plant safety interlocks or external audio/visual indication. Alarms are assigned to the relay outputs in accordance with the ordering code.

A relay will operate when any alarm attached to it becomes true. The corresponding beacon, OP1 or OP2 will flash when a new alarm occurs and go steady when the ACK/RESET button is pressed. The relay will remain in the alarm state while the alarm condition persists.

Pressing the ACK/RESET button will acknowledge new alarms and reset any latched alarms that are no longer true.

TO VIEW THE DISPLAY UNITS

In addition to the label set shown on page 1, the temperature units for thermocouple and RTD inputs, are flashed in the main display, as follows:

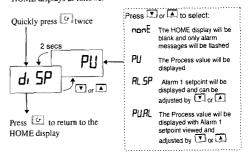


If, at any time you get lost, pressing 🗓 and 🔯 together will always return you to the HOME display.

If, at any time, no key is pressed within 45 seconds, the display will always return to the HOME display.

HOME DISPLAY OPTIONS

When shipped from the factory the HOME display will, by default, show the measured temperature (or PV). You can select alternative HOME displays as follows:



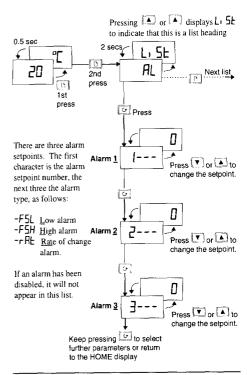
To prevent an Operator changing this option, see

TO HIDE, REVEAL AND PROMOTE PARAMETERS Page 4.

TO CHANGE THE ALARM SETPOINTS (TRIP LEVELS)

The button steps through parameter list headings as shown on page 3. The first list is the alarm setpoints list AL.

Quickly press twice to choose the AL list.



Note: The other parameters listed on page 3 are accessed and adjusted in exactly the same way as this example.

2108i Temperature/Process Indicator and Alarm Unit



Installing and Operating Instructions

Thank you for choosing the 2108*i* indicator and alarm unit. This indicator may be supplied in three hardware variants:

- Indicator only providing accurate measurement and display of temperature and other process variables. In this case the alarm relays are not fitted.
- 2. Indicator plus one alarm relay \quad Providing outputs for machine
- Indicator plus two alarm relays ∫ and product protection

Identification Labels

The indicator is identified by a label fixed to the top of the case which gives the serial number and ordering code. The ordering code defines the configuration of your particular indicator. Details of the code are given on page 7.

DISPLAY UNITS LABEL SET

A peel-off label set, illustrated below, is supplied with the indicator. If a unit label is required, a convenient position is to fix it to the top right hand comer of the display, as shown [[[]]]]

C	"F	K	kPa	V	mV
m/s	cm/s	l/h	mWG	$A = \frac{1}{2}$	mA
x10	1x10	V min	T/h	ϵ_i	W RH
p.s.i	bar	mbar	mPas	% pH	pH
p.s.i.x10	mmHg	Kg/cm ²	gal/min	rev/min	mile/h
EUROTH	ERM				Amps

DIMENSIONS AND INSTALLATION



Panel retaining clips (both sides)

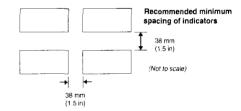
To install the indicator

Please read the safety information on pages 7 & 8 before proceeding.

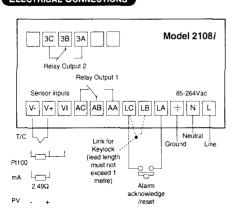
- 1. Prepare the panel cut-out to the size shown.
- . Insert the indicator through the cut-out.
- Spring the panel retaining clips into place. Secure the indicator in position by holding it level and pushing both retaining clips forward.
- 4. Peel off the plastic film protecting the front of the indicator.

Unplugging the indicator

The indicator can be unplugged from its sleeve by easing the latching ears outwards and pulling it forward out of the sleeve. When plugging the indicator back into its sleeve, ensure that the latching ears click into place to maintain the IP54 sealing.



ELECTRICAL CONNECTIONS



Relay Ratings

2A, 264Vac resistive

Wire Sizes

The screw terminals accept wire sizes from 0.5 to 1.5 mm (16 to 22 AWG), Hinged covers prevent hands or metal making accidental contact with live wires. The rear terminals screws should be tightened to 0.4Nm (3.5lb in).



This indicator meets the European directives on safety