.10012 1000 1000 1000



Model 2108*i* 1/8 DIN (96 x 48mm)

Indicator and Alarm Unit

Ideal for:

- Temperature indication
- Process indication
- Over-temperature protection
- Process value trip unit

The 2108*i* provides accurate measurement and display of temperature and other process variables in a standard 1/8 DIN panel format. Two alarm relay outputs are provided for operator alert and process protection.

A universal input allows selection of nine internally stored thermocouple types. Other input linearisations may be factory downloaded. Linear, process inputs are scaleable to the desired display range. Keylock and passwords prevent unauthorised access to configuration and alarm settings.

A large, red or green LED display gives good visibility in low and high ambient lighting.

New alarms can be acknowledged and old alarms reset by a front panel button or an external contact closure input.

Three internal alarm setpoints are provided. They are configurable as high, or low, or rate of change alarms. Any combination of the three internal alarms can activate the two relay outputs. Latching or non-latching operation can be selected and alarm delays can be applied. A special mode known as 'alarm blocking' is available. In this 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.

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

Covers a wide range of temperature and process inputs

Features:

- Universal input
- Two alarm relay outputs
- Wide-range 85-264V ac, supply
 - Rapid replacement reducing downtime

Can be installed world-wide

Friendly operation

For operator alert and plant protection

- Front panel configuration Easy, on-site set-up
- Tactile buttons

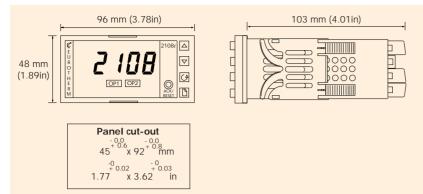
• Plug-in from front

Three year warranty
Low ownership cost

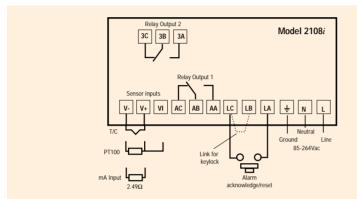
Indicator and Alarm Unit



Dimensions



Electrical connections



Specifications

Display: 4 digit, red or green. 15.9mm high characters

Supply voltage: 100 to 240Vac -15%, +10%

Operating ambients: 0-55°C, 5-95%RH non-condensing

Panel sealing: IP54, plug-in from front panel

Relay ratings: 2A, 240Vac resistive

Calibration accuracy:

 $\pm 0.25\%$ of reading, or $\pm 1^{\circ}$ C, or ± 1 LSD whichever is the greater

Cold junction compensation:

>15 to 1 rejection of ambient temperature change

Input filtering: Off-999.9 seconds

EMC standards:

EN50081-2 and EN50082-2 generic standards for industrial environments

Safety standard:

Meets EN61010, installation category II. Pollution degree 2

Atmospheres:

Not suitable for use above 2000m or in explosive or corrosive atmospheres

Ordering Code

Function	Model Number 2108 <i>i</i> AL		Supply Relay Voltage Output	1 Output 2	Manual	Sensor Input	Setpoint Min. note 1	Setpoint Max. note 1	Units	Input Adaptor
Function AL Alarm unit Display Colour GN Green RD Red Supply Voltage VH 85-264Vac	Relay Output RF Unconfigured Non-latched alarm 1 FH High alarm 1 Low alarm 1 AL High alarm 1 Latched alarm HA High alarm 1 LA Low alarm 1 AA High alarm 1 AA High alarm 1 AA High alarm 1 NW New alarm statu	In the second se	ed alarm alarm 2 alarm 2 of change 2 larm alarm 2 alarm 2 alarm 2 darms tatus annual ish ch man th h hish dish	R R Thermocou S S Thermocou P Platinell II Thr Z RTD/PT100 D Factory Downloade C C C Thermocou D D Thermocou E E Thermocou D D Thermocou E E Thermocou V V/W26%Re (4 W/W26%Re (5 W5%Re/W26 6 W5%Re/W26 7 P10%Rh/Pt4 8 Exergen K80 Process Inputs (Sc2 M -9.99 to +80n Y 0 to 20mA lin A 4 to 20mA lin	ble ple ple-Nicrosil/Nisil ple-Pt/P113%Rh ple-Pt/P10%Rh ple-Pt/P130%Rh-i- rrmocouple IN 43760 d Input ple - W3%Re/W2 ple - W3%Re/W2 ple - W3%Re/W2 ple - W3%Re/W2 ple - W3%Re/W2 ple - W3%Re/M2 ble - W3%Re/M2 cle - M3%Re/M2 second - Second	6%Rh 6%Re(Hoski 55%Re uple nocouple scouple Thermocoup rermocouple uple uple in and max)	0 -200 0 0 0 0	°C Max to 1200 to 1372 to 400 to 900 to 1372 to 400 to 900 to 1300 to 1768 to 1768 to 1869 to 2319 to 1000 to 2399 to 1000 to 2300 to 2000 to 2000 to 2000 to 1800 to 650 Max 650 to 9999 to 9999 to 9999 to 9999 to 9999	XX Not V1 0-1 A1 0-2 res Note 1 max: ino points re value; u tempera two for p Note 2 sense re standarc is requiri	ear input hput Adaptor fitted 0Vdc 0mA current sense istor (2.49Ω 0.1%) Setpoint min and lude the decimal inquired in the dis rquired in the dis ture inputs, up to roccess inputs. A 1% 2.49Ω current istor is supplied ed a 0.1% resistor pecified in the in,

EUROTHERM CONTROLS LIMITED

http://www.eurotherm.co.uk

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