

2108i

MODEL



Ideal for

- temperature indication
- 4-20mA process inputs
- over-temperature protection
- process value trip unit

Specifications

Dimensions:

96W x 48H x 103D mm
panel cut-out 92 x 45mm

Display:

Red or green 4 digit 15.9mm
LED

Supply voltage:

85-264Vac

Operating ambient:

0-55°C, 5-95%RH non-
condensing

Inputs:

Nine standard
thermocouple types.
Pt100. Linear mV/mA

Sample rate:

5Hz

Relay output ratings:

2A, 264Vac resistive

Panel sealing:

IP65, plug-in from front panel

Indicator and Alarm Unit

The 2108i 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.

Features

Universal input - covers a wide range of temperature and process inputs

Three alarm setpoints - separate warning and shut-down limits

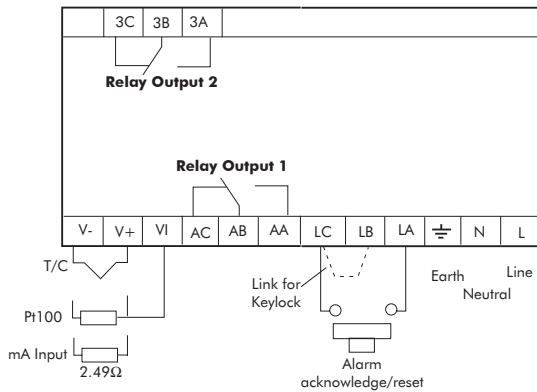
Two alarm relay outputs - for operator alert and plant protection

Wide-range 85-264V ac, supply - can be installed world-wide

Plug-in from front - rapid replacement, reducing downtime

Front panel configuration - easy, on-site set-up

Rear terminal connections



Ordering codes

Model Number	Function	Display Colour	Supply Voltage	Relay Output 1	Relay Output 2	Manual	Sensor Input	Setpoint Min	Setpoint Max	Units	Input Adaptor
2108i	AL		VH					note 1	note 1		

Function	Relay Output 2	Sensor Input	Setpoint Min	Setpoint Max	Units	Input Adaptor																																																																																		
AL Alarm unit Display Colour GN Green display RD Red display Supply Voltage VH 85-264Vac Relay Output 1 RF Unconfigured Non-latched alarm FH High alarm 1 FL Low alarm 1 RA Rate of change alarm 1 Latched alarm HA High alarm 1 LA Low alarm 1 AA High alarm 1 & low alarm 3 RT Rate of change alarm 1 NW New alarm status	RF Unconfigured Non-latched alarm FH High alarm 2 FL Low alarm 2 RA Rate of change alarm 2 Latched alarm HA High alarm 2 LA Low alarm 2 RT Rate of change alarm 2 NW New alarm status Manual XXX No manual ENG English FRA French GER German NED Dutch SPA Spanish SWE Swedish ITA Italian	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 2) A 4 to 20mA linear (note 2) V 0 to 10Vdc linear (Input Adaptor required)	<table border="1"> <thead> <tr> <th>Min</th> <th>°C</th> <th>Max</th> </tr> </thead> <tbody> <tr><td>-210</td><td></td><td>1200</td></tr> <tr><td>-200</td><td></td><td>1372</td></tr> <tr><td>-200</td><td></td><td>400</td></tr> <tr><td>-200</td><td></td><td>900</td></tr> <tr><td>-200</td><td></td><td>1300</td></tr> <tr><td>-50</td><td></td><td>1768</td></tr> <tr><td>-50</td><td></td><td>1768</td></tr> <tr><td>0</td><td></td><td>1820</td></tr> <tr><td>0</td><td></td><td>1369</td></tr> <tr><td>-200</td><td></td><td>850</td></tr> <tr><th>Min</th><th>°C</th><th>Max</th></tr> <tr><td>0</td><td></td><td>2319</td></tr> <tr><td>0</td><td></td><td>2399</td></tr> <tr><td>-250</td><td></td><td>1000</td></tr> <tr><td>0</td><td></td><td>1399</td></tr> <tr><td>0</td><td></td><td>1870</td></tr> <tr><td>0</td><td></td><td>2000</td></tr> <tr><td>0</td><td></td><td>2010</td></tr> <tr><td>10</td><td></td><td>2300</td></tr> <tr><td>0</td><td></td><td>2000</td></tr> <tr><td>200</td><td></td><td>1800</td></tr> <tr><td>-45</td><td></td><td>650</td></tr> <tr><th>Min</th><th>°C</th><th>Max</th></tr> <tr><td>-1999</td><td></td><td>9999</td></tr> <tr><td>-1999</td><td></td><td>9999</td></tr> <tr><td>-1999</td><td></td><td>9999</td></tr> <tr><td>-1999</td><td></td><td>9999</td></tr> </tbody> </table>	Min	°C	Max	-210		1200	-200		1372	-200		400	-200		900	-200		1300	-50		1768	-50		1768	0		1820	0		1369	-200		850	Min	°C	Max	0		2319	0		2399	-250		1000	0		1399	0		1870	0		2000	0		2010	10		2300	0		2000	200		1800	-45		650	Min	°C	Max	-1999		9999	-1999		9999	-1999		9999	-1999		9999	C Celsius F Fahrenheit K Kelvin X Linear input Input Adaptor XX Not fitted V1 0-10Vdc A1 0-20mA current sense resistor (2.49Ω/0.1%)
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Note 1. Setpoint min and max: Include the decimal points required in the display value; up to one for temperature inputs, up to two for process inputs.

Note 2. A 1% 2.49Ω current sense resistor is supplied as standard. If greater accuracy is required a 0.1% resistor can be specified in the input adaptor field.

Example ordering code
 2108i - AL - GN - VH - FH - FL - ENG - K - 0 - 1000 - C - XX

2108i, Indicator, green display, relay 1 high alarm, relay 2 low alarm, English manual, Type K thermocouple, 0 to 1000°C, no options

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