

# 2108i

## Indicator and Alarm Unit



The 2108i provides accurate 4 digit measurement and display of temperature and other process variables in a standard 1/8 DIN format. Two alarm relay outputs are provided from up to three internal soft alarms. External digital keylock and alarm acknowledge inputs are standard.

The 2108i accepts outputs from all popular temperature, pressure, flow, and level measurement sensors.

### Features

- Universal input - covers a wide range of temperature and process inputs
- Three alarm setpoints - separate warning and shutdown limits
- Two alarm relay outputs - for operator alert and plant protection
- Wide-range 85-264Vac, supply - can be installed worldwide
- Plug-in from front - rapid replacement, reducing downtime
- Front panel configuration - easy, onsite setup

### Ideal for

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

### Specifications

**Dimensions:**

96W x 48H x 103D mm

**Display:**

Red or green 4 digit 15.9 mm 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:**

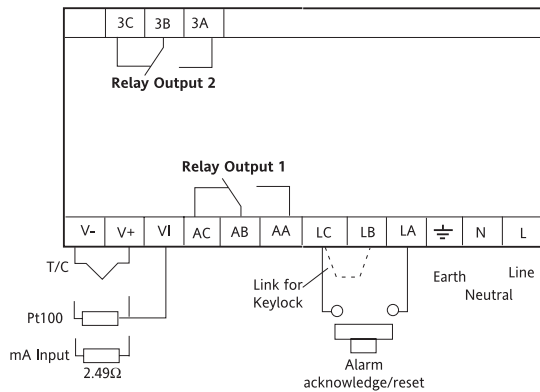
IP65, plug-in from front panel

**Data sheet:**

HA026159

# Rear terminal connections and ordering codes

## Model 2108i



Model Number	Function	Display Color	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

AL Alarm unit

### Display Color

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

### Relay Output 2

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

### Sensor Input

	Min	°C	Max
<b>Standard Sensor Inputs</b>			
J J Thermocouple	-210		1200
K K Thermocouple	-200		1372
T T Thermocouple	-200		400
L L Thermocouple	-200		900
N N Thermocouple-Nicrosil/Nisil	-200		1300
R R Thermocouple-Pt/Pt13%Rh	-50		1700
S S Thermocouple-Pt /Pt10%Rh	-50		1768
B B Thermocouple-Pt/Pt30%Rh -6%Rh	0		1820
P Platinel II Thermocouple	0		1369
Z RTD/PT100 DIN 43760	-200		850
<b>Factory Downloaded Input</b>			
C C Thermocouple - W5%Re/W26%Re (Hoskins)	0		2319
D D Thermocouple - W3%Re/W25%Re	0		2399
E E Thermocouple	-250		1000
1 Ni/Ni18%Mo Thermocouple	0		1399
2 Pt20%Rh/Pt40%Rh Thermocouple	0		1870
3 W/W26%Re (Engelhard) Thermocouple	0		2000
4 W/W26%Re (Hoskins) Thermocouple	0		2010
5 W5%Re/W26%Re (Engelhard) Thermocouple	10		2300
6 W5%Re/W26%Re (Bucose) Thermocouple	0		2000
7 Pt10%Rh/Pt40%Rh Thermocouple	200		1800
8 Exergen K80 I.R. pyrometer	-45		650
<b>Process Inputs (Scaled to setpoint min and max)</b>			
M -9.99 to 80.00mV linear	-999		9999
Y 0 to 20mA linear (note 4)	-999		9999
A 4 to 20mA linear (note 4)	-999		9999
W 0 to 5Vdc linear	-999		9999
G 1 to 5Vdc linear	-999		9999
V 0 to 10Vdc linear	-999		9999

### Units

C Celsius  
F Fahrenheit  
K Kelvin  
X Linear input

### Input Adaptor

XX Not fitted  
V1 0-10Vdc  
A1 0-20mA current sense resistor (2.49%± 0.1%)

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