

# 2132i/2116i

## Compact Indicator and Alarm Units



The 2132i/2116i are compact high performance 4 digit units for measurement and display of temperature and other process variables in standard 1/32 and 1/16 DIN panel sizes.

Both models include an alarm relay output and logic output. The logic output can be used to drive an optional second relay or operate as an alarm acknowledge input.

The universal input of the 2132i/2116i accepts a wide range of two wire temperature sensors and process inputs.

### Features

- Universal input - covers a wide range of temperature and process inputs
- Three alarm setpoints - separate warning and shut-down limits
- One or two alarm outputs - alarm alert and shutdown outputs
- Front panel configuration - easy, onsite setup
- Wide-range 85-264Vac, or 20-29Vac/dc supply - can be installed worldwide
- Plug-in from front - rapid replacement, reducing downtime
- IP65 panel sealing - can be used in wet and dusty atmospheres

### Ideal for

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

### Specifications

#### Dimensions:

2132i: 48W x 24H x 103D mm

2116i: 48W x 48H x 103D mm

#### Display:

Green 4 digit 10mm LED

#### Supply voltage:

85-264Vac

20-29Vac or dc, 15 watts maximum

#### Operating ambient:

0-55°C, 5-95% RH non-condensing

#### Inputs:

Nine standard thermocouple types, Pt100, Linear mV/mA

#### Sample rate:

5Hz

#### Relay output rating:

2A, 264Vac resistive

#### Panel sealing:

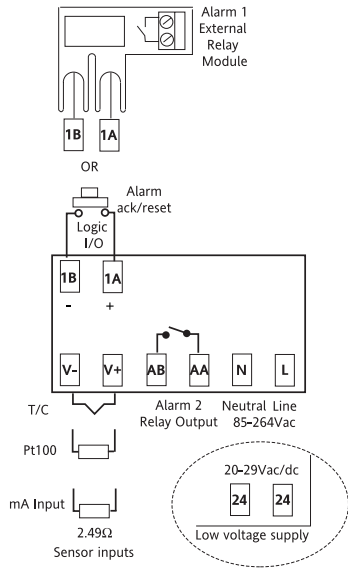
IP65, plug-in from front panel

#### Data sheet:

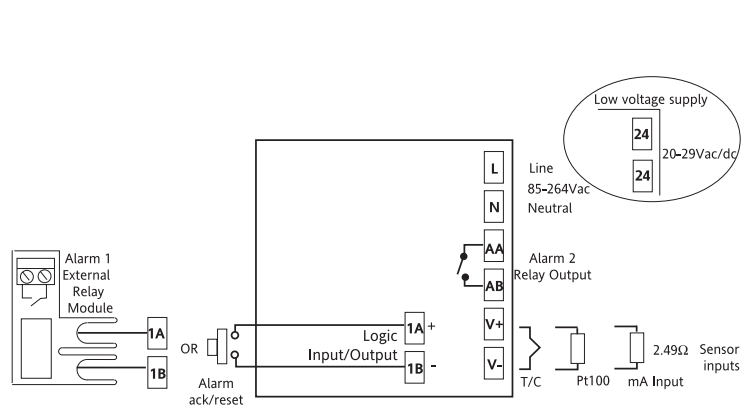
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# Rear terminal connections and ordering codes

## Model 2132i



## Model 2116i



Model Number	Function	Supply Voltage	Manual	Logic Input/Output	Alarm 2 Relay Output	Sensor Input	Setpoint Min	Setpoint Max	Units	Ext. Relay Module	Input Adaptor
	note 1						note 2	note 2			

### Model Number

2132i 48x24mm unit  
2116i 48x48mm unit

### Function

ND Indicator only (Logic I/O and Alarm relay will not be fitted)  
AL Indicating alarm unit (Logic I/O and alarm output fitted)

### Supply Voltage

VH 85-264Vac  
VL 20-29Vac/dc

### Manual

XXX No manual  
ENG English  
FRA French  
GER German  
NED Dutch  
SPA Spanish  
SWE Swedish  
ITA Italian

### Logic Input/Output

XX Disabled (note 1)  
**Logic input**  
AC Alarm ack/reset  
KL Keylock  
**Non-latched alarm**  
FH High alarm 1  
FL Low alarm 1  
**Latched alarm**  
HA High alarm 1  
LA Low alarm 1  
NW New alarm

### Alarm 2 Relay Output

XX Disabled (note 1)  
**Non-latched alarm**  
FH High alarm 2  
FL Low alarm 2  
AL High alarm 2 & low alarm 3  
**Latched alarm**  
HA High alarm 2  
LA Low alarm 2  
AA High alarm 2 & low alarm 3  
NW New alarm

### 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

### Ext. Relay Module

XX Not fitted  
R7 Fitted (Operated by the logic output)

### Input Adaptor

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

Note 1.  
If 'ND' (Indicator only) is specified in the function field then 'XX' must be entered in the Logic Input output field and the Alarm 2 Relay field.

Note 2.  
Setpoint min and max: Include the decimal position required in the display value; up to one for temperature inputs, up to two for process inputs.

Note 3.  
An external 1% current sense resistor is supplied as standard. If greater accuracy is required specify 'A1' in the Input Adaptor field.

### Example ordering code

2132i - AL - VH - ENG - AC - HA - K - 0 - 1000 - C - XX

2132i, Indicating alarm unit, 85 to 264Vac, English manual, Remote Acknowledge, Latched High Alarm Relay Output, Type K thermocouple, 0 to 1000°C, no options