

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:

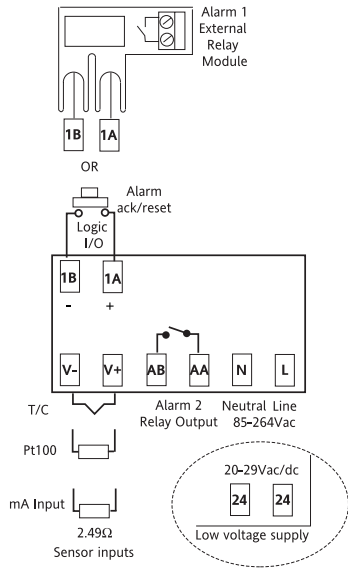
IP65, plug-in from front panel

Data sheet:

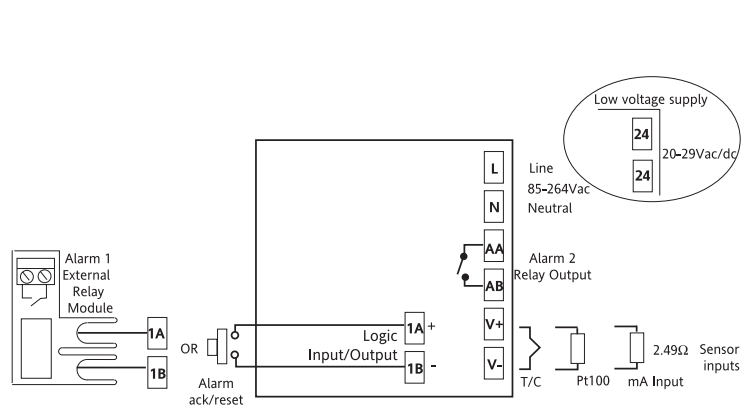
HA026157

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
Standard Sensor Inputs			
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
Factory Downloaded Input			
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
Process Inputs (Scaled to setpoint min and max)			
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