

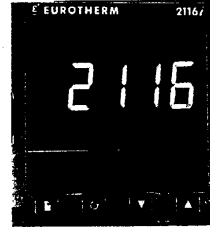
722-9859
722-9860
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2132i 2116i

MODELS



Model 2132i
1/32 DIN (48 x 24mm)



Model 2116i
1/16 DIN (48 x 48mm)

Ideal for:

- Temperature indication
- 4-20mA process inputs
- Over-temperature protection
- Process value trip unit

Features:

- **Universal input** Covers a wide range of temperature and process inputs
- **Three alarm setpoints** Separate warning and shut-down setpoints
- **One or two alarm outputs** Alarm alert and shut-down outputs
- **Front panel configuration** Easy, on-site set-up
- **Wide-range 85-264V ac, or 20-29Vac/dc supply** Can be installed world-wide
- **Plug-in from front** Rapid replacement - reducing downtime
- **IP65 and NEMA 4X panel sealing** Can be used in wet and dusty atmospheres
- **Meets European EMC and safety directives** Assured reliability in industrial environments
- **Three year warranty** Low ownership cost

Indicator and Alarm Units

Available in compact 1/32 and 1/16 DIN panel sizes, the 2132i and 2116i provide accurate measurement and display of temperature and other process variables. A universal input allows selection of nine internally stored thermocouple types. Other input linearisations may be factory downloaded. Linear 4-20mA inputs can be scaled to the desired display range. Keylock and passwords prevent unauthorised access to configuration and alarm settings.

A bright, clear LED display gives good visibility in low and high ambient lighting.

Three internal setpoints are provided. They operate up to two alarm outputs which can be configured as latching or non-latching. 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.

Operation is user friendly with tactile buttons.

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



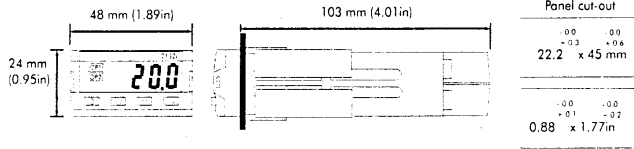
**EUROTHERM
CONTROLS**

**Indicator
and Alarm
Units**

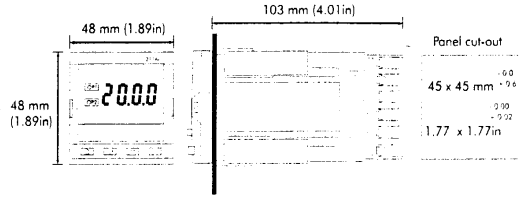


Dimensions

2132i

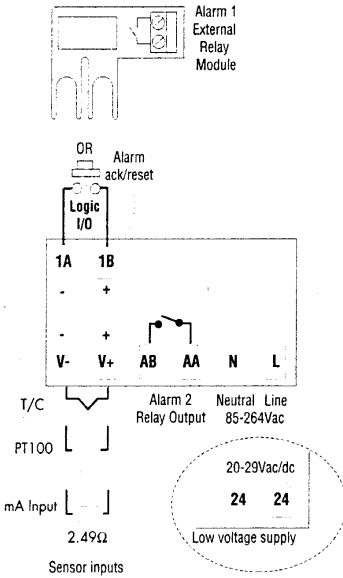


2116i

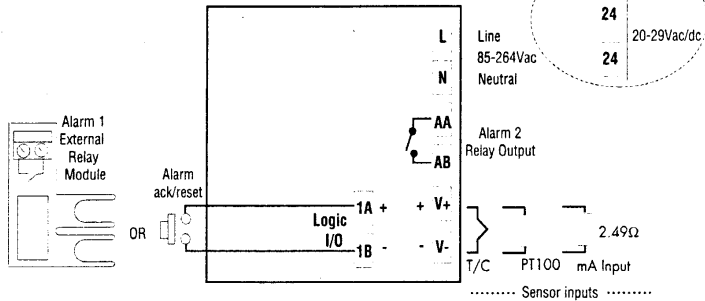


Electrical connections

2132i



2116i



Specifications

Display:

4 digit, green, 10mm high characters

Supply voltage:

85-264Vac, 48-62Hz, or 20-29Vac/dc, 5watts max

Operating ambients:

0-55°C, 5-95%RH non-condensing

Output ratings:

Logic: 9Vdc, 12mA (non-isolated)
 (Can be used as alarm output or alarm acknowledge input)
 Relay: 2A, 264V ac resistive

Calibration accuracy:

± 1°C or ± 0.25% of reading whichever is greater

Cold junction compensation:

>30 to 1 rejection of ambient temperature change

Input filtering:

Off-999.9 seconds

EMC standards:

Meets generic emissions standard EN50091-2 and immunity standard EN50082-2 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

Model Number	Function	Supply Voltage	Manual	Logic I/O	Alarm 2 Relay Output	Sensor Input	Setpoint Min.	Setpoint Max.	Units	External Relay Module	Input Adaptor
2132i											
2116i											

Function
AL Indicator/alarm unit
Supply Voltage
VH 85-264Vac
VL 20-29Vdc or ac
Manual
XXX No manual
ENG English
FRA French
GER German
NED Dutch
SPA Spanish
SWE Swedish
DEN Danish
ITA Italian

Logic I/O
XX Disabled
LI Logic input
AC Alarm ack/reset
KL Keylock
LO Logic output
FH High alarm 1
FL Low alarm 1
NW New alarm
Alarm 2 Relay Output
XX Disabled
FH High alarm 2
FL Low alarm 2
AL High alarm 2 & low alarm 3
NW New alarm

Sensor Input	Setpoint Min/Max
Thermocouples	°C °F
J Type J	-210 to 1200 340 to 2192
K Type K	-200 to 1372 -325 to 2500
T Type T	-200 to 400 -325 to 750
L Type L	-200 to 900 -325 to 1650
N Type N	-200 to 1300 -325 to 2370
R Type R	-50 to 1768 -58 to 3200
S Type S	-50 to 1768 -58 to 3200
B Type B	-0 to 1820 32 to 3308
P Platinum II	0 to 1369 32 to 2496
Resistance thermometer	
Z Pt100	-200 to 850 -325 to 1562
Custom downloaded inputs	
C Type C - W5%Re:W26%Re (default custom sensor)	0 to 2319 32 to 4200
D Type D - W3%Re:W25%Re	0 to 2399 32 to 4350
E Thermocouple	-200 to 999 -325 to 1830
1 Ni/Ni18%Mo	0 to 1399 32 to 2550
2 Pt20%Rh:Pt40%Rh	0 to 1870 32 to 3398
3 W/W26%Re (Englehard)	0 to 2000 32 to 3632
4 W/W26%Re (Hoskins)	0 to 2010 32 to 3650
5 W5%Re:W26%Re (Englehard)10	0 to 2300 50 to 4172
6 W5%Re:W26%Re (Bucose)	0 to 2000 32 to 3632
7 Pt10%Rh:Pt40%Rh	200 to 1800 32 to 3632
8 Exergen K80 I.R. pyrometer	-45 to 650
Process inputs (linear)	
M	-12 to +80mV Scalable -1999 to 9999
Y	0 to 20mA Scalable -1999 to 9999
A	4 to 20mA Scalable -1999 to 9999
V	0 to 10Vdc (input adapter required) Scalable -1999 to 9999

Units
C °C
F °F
K Kelvin
X Linear input
External Relay Module
XX Not fitted
R7 Fitted (Operated by the logic output)
Input Adaptor
XX Not fitted
V1 0-10Vdc
A1 0-20mA sense resistor (2.49Ω, 0.1%)

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