





Model 2208FM 1/8 DIN (48 x 96mm)



Model 2204FM 1/4 DIN (96 x 96mm)



Series 2000_{FM} Alarm Units

- Standard 1/4, 1/8, 1/16, 1/32 DIN panel cutout
- Plug-in from the front

Model 2132FM

1/32 DIN

(48 x 24mm)

- Independent alarm outputs
- User defined operator interface
- Digital input for alarm reset or simple front panel acknowledgment and reset of alarms
- EIA-485 communications
- IP 65 panel sealing (NEMA 4X)
- Compliant with European EMC and low voltage safety directives

The Series 2000_{FM} Family of alarm units is UL and FM approved. The family consists of four instruments; 2132_{FM}, 2116_{FM}, 2208_{FM} and 2204_{FM}.

Universal input

A universal input circuit with an advanced analog to digital convertor samples the input and continuously corrects it for drift. This gives high stability and rapid response to process changes. High noise immunity is achieved by rejection of 50/60Hz pick-up and other sources of noise. The input covers all thermocouple types, Pt100 RTD linear millivolts or milliamps or DC volts. Input filtering from 1.0 to 999.9 seconds is included.

Customized operation

Front panel LEDs provide a bright, clear display of the process value. Tactile push buttons insure positive operation.

Access to other parameters is simple and easy to understand and can be customized to present only those parameters that need to be viewed or adjusted. All other parameters are locked away under password protection.

A digital input for alarm acknowledgement/reset is included as standard.

Alarm Operation

The alarms do not require acknowledgement during power up unless you are in an alarm condition. The alarms can only be acknowledged when the unit is out of the alarm condition. If the alarm is acknowledged before the unit is out of an alarm condition, the unit will ignore the acknowledgements.







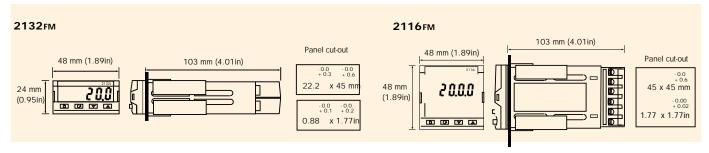




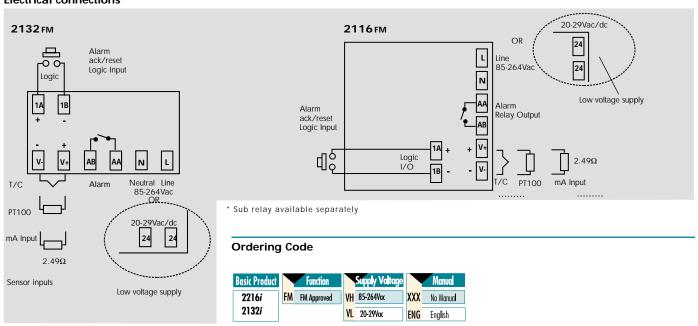


Sensor inputs and display ranges (Temperature scales con	ionin to the 11570 stands	Celsius Fahrenheit		
Standard Sensor Inputs	Min	Max	Min	Max
J thermocouple	-210	1200	-350	2192
K thermocouple	-200	1372	-325	2500
T thermocouple	-200	400	-325	750
L thermocouple	-200	900	-325	1650
N thermocouple	-200	1300	-325	2370
C thermocouple - W5%Re/W26%Re (Hoskins)	0	2319	32	4200
R thermocouple	-50	1768	-60	3200
S thermocouple	-50	1768	-60	3200
B thermocouple	0	1820	32	3310
Platinell II thermocouple	0	1369	32	2500
RTD/PT100DIN 43760	-200	850	-325	1560
Custom Sensor Inputs (Replaces type C thermocouple)				
E thermocouple	-200	1000	-325	1830
Ni/Ni18%Mo thermocouple	0	1100	32	2012
Pt10%Rh/P140%Rh thermocouple	200	1800	392	3272
Pt20%Rh/Pt40%Rh thermocouple	0	2000	32	3632
W/W26%Re (Englehard) thermocouple	0	2000	32	3632
W/W26%Re (Hoskins) thermocouple	0	2010	32	3650
W5%Re/W26%Re (Englehard) thermocouple	10	2300	50	4172
W5%Re/W26%Re (Bucose) thermocouple	0	2000	32	3632
D thermocouple - W3%Re/W25%Re	0	2400	32	4352
Linear Inputs	.999	9999		

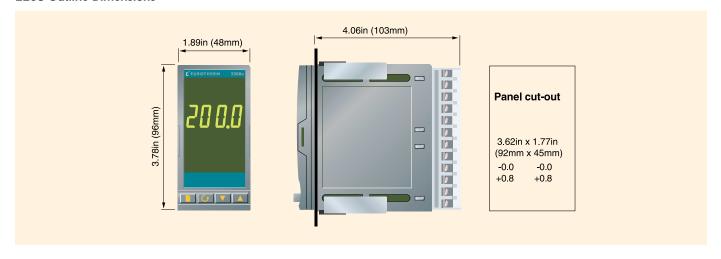
Dimensions



Electrical connections



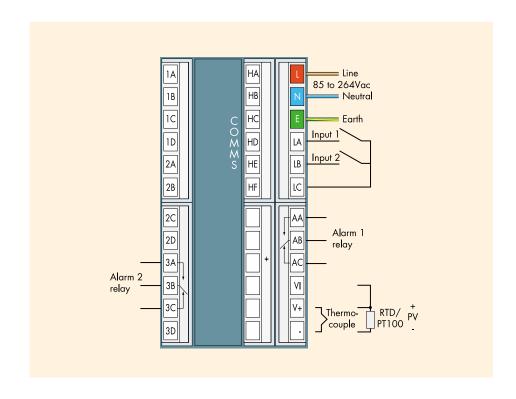
2208 Outline Dimensions



Rear Terminal Connections

Alarms 3 and 4 are optional latching and non-latching outputs which are shown in the ordering code below.

Alarm 3	Relay
1A	F
1B	/ <u>L</u>
Alarm 4	Relay
2A	Ţ
2B	' <u>∟</u>

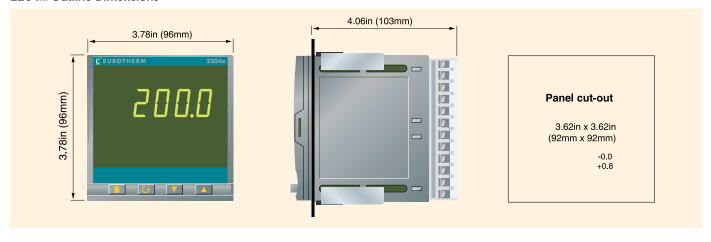


Ordering Code



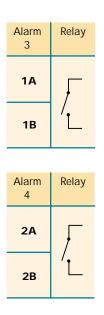
The above ordering code specifies only the hardware build. The input type and output control functions must then be configured on-site to suit a particular application.

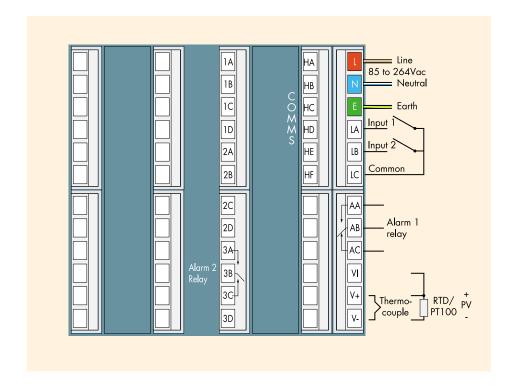
2204_{FM} Outline Dimensions



Rear Terminal Connections

Alarm 3 and 4 are optional latching and non-latching outputs which are shown in the ordering code below.





Ordering Code



The above ordering code specifies only the hardware build. The input type and output control functions must then be configured on-site to suit a particular application. If preconfiguration is required, ask for details on the full ordering code.

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