

Temperature monitor



- ▶ Monitors refrigeration temperatures are within safe limits
- ▶ Monitors correct equipment operation
- ▶ Factory programmed window limits
- ▶ Direct replacement for Neon indicator
- ▶ Thermistor temperature sensor
- ▶ Blue LED indicates normal temperature
- ▶ Flashing Red LED indicates too hot
- ▶ Flashing Blue LED indicates too cool
- ▶ Convenient snap-in design
- ▶ Choice of connection terminals
- ▶ Bezel size 32 x 14mm

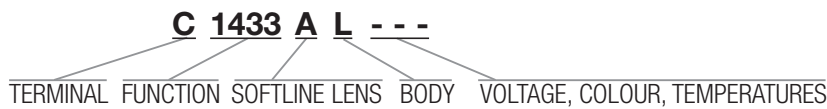
230Vac ±20% 50Hz. 115Vac, 24Vdc & 12Vdc available
Less than 1 watt (power consumption)

UL Pending



CE Mark

RoHS RoHS compliant



▶ TERMINAL	▶ BODY & DIMENSIONS	▶ SPECIFICATION
------------	---------------------	-----------------

C

6.3 x 0.8

H

4.8 x 0.8

T

Solder
Ø2.1

X

PCB 0.8Sq
4.0

L Panel Cut-Out

30.0
30.1
11.0/11.1

Bezel

R1.0
32.0
14.0

Dimensions

2.0 25.3Max

Dimensions

Bezel 32.0mm x 14.0mm
Panel cut-out 11.0/11.1mm x 30.0/30.1mm
0.75mm to 2.5mm

Panel thickness

0.75mm to 2.5mm

Body
Lens
Terminals
Flame retardancy
RoHS compliant

Nylon 6.6, matt finish, black colour is standard
Clear Polycarbonate, Softline matt finish
Copper alloy, Silver plated
UL94V2
Yes

Operating supply
Power consumption

230Vac ±20% 50Hz. 115Vac, 24Vdc & 12Vdc available
Less than 1 Watt

Operating conditions (body)

-20°C to +70°C (-4°F to 158°F)
0 to 95% RH (non-condensing)

Electromagnetic Compatibility

Compliant with directives 89/336/EEC & 92/31/EEC

EMC Immunity

EN 55014-2:1997 Household appliances
EN 61000-6-2:2005 Industrial Environments, 10 V/m

EN 61000-4-2:1995 Electrostatic Discharges (ESD)
EN 61000-4-3:2002 RF Electromagnetic fields
EN 61000-4-4:2004 Fast Transients & Bursts
EN 61000-4-5:1995 Surges
EN 61000-4-6:1996 Conducted disturbances
EN 61000-4-11:2004 Voltage dips & interruptions

EMC Emissions

EN 55014-1:2001 Household appliances
EN 55022 Class B:1998 Domestic environments

Measurement range
Measurement accuracy
Temperature sensor

-30°C to +80°C (-22°F to +176°F)
±1.0°C (±1.8°F)
NTC Thermistor, sealed sensor, cable length 1m

Approvals

UL Pending
CE Mark



APPLICATIONS

- ▶ Deep freeze monitoring - visual check of correct temperature
- ▶ Cold storage monitor - visual check of correct temperature
- ▶ Refrigeration monitoring - visual check of correct temperature
- ▶ Chiller monitor - visual check of correct temperature
- ▶ Air conditioning - status indicator
- ▶ Equipment check - without having to know exact temperature



INDICATIONS

Upper and lower temperature limits can be factory programmed to suit the application.

The smart indicator operates like a standard neon indicator, giving visible status indication for the appliance or application. Normal operation will show continuous Blue LED illumination (contact factory for other colours) while the monitored temperature is within the 'safe' range between lower and upper limits.

When the measured temperature falls outside of the 'safe' range, the LED illumination will start to flash or change colour. (contact factory for colour options).

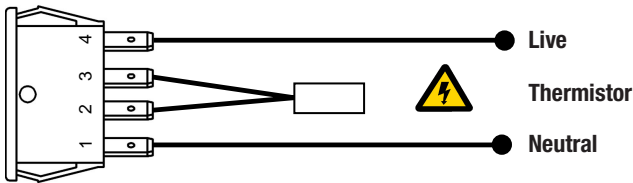
Example temperatures (Freezer):

Above -14°C	Too warm (Flashing Red LED)
Between -14°C and -22°C	OK (Blue LED)
Below -22°C	Too cold (Flashing Blue LED)

Optional steady/flashing LED and colour combinations available – contact factory.



CONNECTIONS



PART NUMBER

1433AL

Specify Terminal Type:	C, H, T, X
Specify Model Code:	1433AL
Specify Supply Voltage:	230Vac, 115Vac, 24Vdc, 12Vdc
Specify LED Colour:	Red/Green, Red/Blue
Specify Lower temperature limit:	-30°C to +80°C (-22°F +176°F)
Specify Upper temperature limit:	-30°C to +80°C (-22°F +176°F)