

Temperature monitor 1430 Smart indicator series



- ▶ Monitors refrigeration temperatures are within safe limits
- ▶ Monitors correct equipment operation
- ▶ Factory programmed window limits
- ▶ Built using Surface Mount Technology
- ▶ Internal microcontroller and power supply
- ▶ Flexible configuration & functionality in firmware
- ▶ Industry standard Thermistor supplied
- ▶ Blue LED indicates normal temperature
- ▶ Flashing Red LED indicates too hot
- ▶ Flashing Blue LED indicates too cool
- ▶ Convenient snap-in design, fits standard panel cut-out
- ▶ Choice of connection terminals
- ▶ Panel cut-out: 30.0x11.0mm

230Vac, 115Vac, 48V, 24V & 12V
Less than 1 watt (power consumption)

UL US UL Recognised. File no. E311309

CE CE Mark

FCC FCC compliant

RoHS RoHS compliant

C 1433 A L - - -

TERMINAL FUNCTION SOFTLINE LENS BODY VOLTAGE, COLOUR, TEMPERATURES

▶ TERMINAL	▶ BODY & DIMENSIONS	▶ SPECIFICATION
C 6.3 x 0.8 H 4.8 x 0.8 T Ø2.1 Solder X 4.0 PCB 0.8Sq All dimensions in millimetres (mm)	L Panel Cut-Out 30.0 30.1 11.0/11.1 Bezel R1.0 32.0 14.0 Dimensions 2.0 25.3 Max	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 UL94V0 Yes Operating supply 230Vac $\pm 20\%$ 50/60Hz. 115Vac, 48Vdc, 48Vac, 24Vdc, 24Vac, 12Vdc & 12Vac Less than 1 Watt Power consumption 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) $\pm 1.0^\circ\text{C}$ ($\pm 1.8^\circ\text{F}$) NTC Thermistor, sealed sensor, cable length 1m Approvals UL Recognised FCC Compliant CE Mark Standards UL 508 CSA C22.2 No. 14-05



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 sales 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 sales 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 sales for colour options).

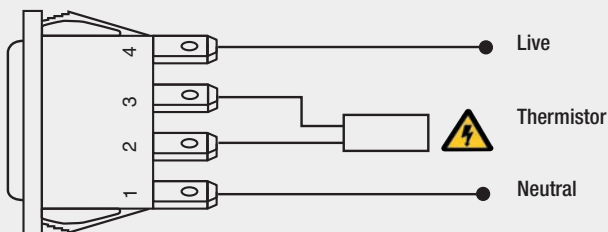
Example temperatures (Freezer):

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 sales.



CONNECTIONS



PART NUMBER

1433AL

Specify Terminal Type:	C, H, T, X
Specify Model Code:	1433AL
Specify Supply Voltage:	230Vac, 115Vac, 48Vdc, 48Vac, 24Vdc, 24Vac, 12Vdc, 12Vac
Specify LED Colour:	Blue/Red, Green/Red
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)