



Model 140-200R Temperature Monitor/Alarm



FEATURING:

- Easy to read LCD display
- Audio and visual alarms
- Alarm test switch
- Selectable audio mute period
- Adjustable and displayable alarm settings, initial alarm delay and relay periods
- Range: -200°C to +50°C
- Standard SPDT relay output

This is a single probe temperature alarm, covering -200°C to +50°C, housed in a wall-mounted or free-standing box. The basic unit includes alarm on high and low temperatures, with audible and visual alarm indicators (beeper and LED), settable initial delay, mute and alarm “chirp” periods, and a UL listed plug-in power supply. The Model 140-200R utilizes a Type “T” thermocouple, available in 2.5", 4" or 8" s.s sheath lengths (user specified).

Features to make this instrument suitable for applications such as built-in monitoring of LN2 or -135 or -150°C ultra low temperature freezers include temporary muting of the alarm beeper for user-selectable periods up to about 30 minutes (the beeper cannot be disabled completely); the relay contacts with user adjustable delay period, for hookup to a remote alarm device or telephone dialer.

The Model 140 alarms can be connected to Hampshire Controls Corp. centralized monitoring systems, using a single twisted pair common bus for both power and digital data. Consult Hampshire Controls Corp. for available options and configurations.

Available Options:

- NiMH battery backup
- 4 to 20 mA output
- 10 mv per degree C voltage output for recorder or data logger
- Optional extended panel available for direct mounting into a wall or cabinet panel opening
- Ethernet Interface
- Passcode protected set points

*Custom programming and packaging can be provided
to fit most temperature monitoring tasks.*

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**Power Requirements:**

9-30 volts DC, 25 ma maximum
(120VAC, 60Hz UL listed supply is standard)
(220V optional)

Optional Battery Back Up:

7-cell NiMH, 8.4 volt 120 maHr,
Uses standard 9v size, *option-B*

Charger:

2 ma trickle charger, built in

Standard Sensor:

Type "T" thermocouple w/6' lead wire,
2.5", 4" or 8" s.s. sheath
(*user specified*)

Temperature Range:

-200 to +50°C

Resolution:

1°C

Accuracy:

+/-2°C

Mechanical:

Case is black bakelite, 5"w x 4.25"h x 1.75"d
wall mount with Velcro, or set on bottom edge;
all wires exit through side

Outputs:

SPDT relay contacts with user adjustable delay
period
10mV per degree C output, *option-V*
4 to 20 mA output, *option-I*
Digital output, *option-D*

Special Options:

RS-485
Ethernet Interface
Passcode Protected Set Points

There is a one-year warranty on all Hampshire Controls products.

Hampshire Controls Corp. is a Woman Owned Small Business

About Our Company

Started in 1975, Hampshire Controls provides standard and custom designed electronics to the biomedical and industrial markets. In addition to the Model 140, other products include:

- Model TS4 4-Point Temperature Monitor
- Model LD-200 LN2 Level Detector/Alarm
- CO2 Backup Control/Alarm for Freezers
- Isolated Input Line Voltage Controls
- Multipoint Central Monitoring System (CMS-II)
- Dataplex-32 Multipoint Monitor/Logger
- Custom Microprocessor Assemblies
- Model ADM Alarm Delay Module
- Regulated Output Phase Control
- Custom AC Motor Phase Controls
- Model AFM Air Flow Monitor
- Model TC-3 Rapid Response TempCheck

