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<http://www.dexterindustries.com/download.html#dLight>

## Thermal Sensors for LEGO® MINDSTORMS® NXT (Protected)



- Thermal sensors for LEGO® MINDSTORMS® NXT.
- Plugs directly into your NXT sensor ports.
- Easily programmed in NXT-G, Labview, RobotC.
- Widest temperature range: -50C to 150C
- Easily incorporated into datalogging experiments in chemistry, physics, and engineering.

### Detailed Description

dThermal Series by Dexter Industries is a line of temperature sensors for the LEGO® MINDSTORMS® NXT system. The sensors offer an increased range of operating temperatures and a high level of accuracy.

These thermal sensors can easily be incorporated into chemistry, engineering, and environmental experiments with NXT-G and Labview.

### Protected Thermal Probe

Constructed of 316 stainless steel, this rugged temperature probe is encased in a stainless steel shaft that can be used to measure temperatures in water, organics, ionic solutions, most acids, and bases.

The probe has a 1/4" OD, and is 6" long, making it ideal for most laboratory experiments and sealed distillation experiments. Solid construction offers superior strain relief.

## Open Thermal Probe

This open thermal probe offers more rapid temperature readings. The probe is for use on dry surfaces and can be mounted to beakers, distillation columns, and other surfaces using steel bands.

The data line reaches 2 feet for flexibility of setup, and is hooked directly into the NXT. Solid construction and a rugged design with extra protection offers strain relief and a long lifetime.



### Technical Specifications:

#### Protected Thermal Probe:

- Temperature Operating Range: -50C (-58 F) to 150 C (302 F)
- Accuracy: +/- 0.5 C
- Response Time: 90% in 50 Seconds
- Precision:-50C - 0C +/-1 C
- 0C - 50C +/-0.1 C
- 50 C - 100C +/- 0.5 C
- 100 C - 150 C +/- 2 C

#### Open Thermal Probe:

- Temperature Operating Range: -50C (-58 F) to 150 C (302 F)
- Accuracy: +/- 0.5 C
- Response Time: 90% in 25 Seconds
- Precision:-50C - 0C +/-1 C
- 0C - 50C +/-0.1 C
- 50 C - 100C +/- 0.5 C
- 100 C - 150 C +/- 2 C