

SURFACE THERMOMETER

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ABSTRACT

An electronic based thermometer can be easily constructed by using a single diode as a heat sensor. For surface temperature measurements of heats sinks, the highest temperature reading should be at least 125°C, but extreme accuracy is not called for. However, despite its basic simplicity, will read $\pm 2\%$ at worst and over the lower ranges of the scale may well be better than this. A circuit arrangement also makes it possible to go down to temperature below 0°C if desired.