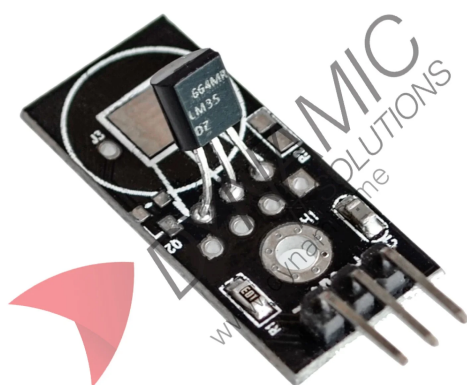


# Digital Temperature Sensor LM35D

## LM35DZ

**Features:**

The LM35D temperature sensor module provides precise ambient temperature measurements with a linear output voltage directly proportional to degrees Celsius. Featuring a sensitivity of 10 mV/°C and factory-calibrated accuracy of  $\pm 0.5^{\circ}\text{C}$  at  $25^{\circ}\text{C}$ , it offers easy analog interfacing with minimal power consumption ( $<60\ \mu\text{A}$ ). Its sealed IC design ensures long-term reliability and low self-heating ( $<0.1^{\circ}\text{C}$  in still air), making it ideal for embedded and general-purpose temperature monitoring applications.

Specifications	
Sensor Type	Analog linear IC temperature sensor (LM35D / LM35DZ)
Output Type	Analog voltage
Output Scale	10 mV/°C
Temperature Range	$-55^{\circ}\text{C}$ to $+150^{\circ}\text{C}$
Accuracy	$\pm 0.5^{\circ}\text{C}$ at $25^{\circ}\text{C}$ ; $\pm 0.75^{\circ}\text{C}$ over full range
Operating Voltage	4 V to 30 V DC
Current Consumption	$<60\ \mu\text{A}$
Output Impedance	$<0.1\ \Omega$ (at 1 mA load)
Self-Heating	$<0.1^{\circ}\text{C}$ in still air
Module Extras	Mounting holes ( $\varnothing 2.6\text{ mm}$ ) for easy installation
Package Type	TO-92 (commonly used)

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