LM35

The **LM35** is a precision **temperature sensor** that provides an **analog voltage output** proportional to temperature in **degrees Celsius**. It operates over a typical range of **-55°C to +150°C** and has a sensitivity of **10 mV/°C**, meaning for every 1°C change in temperature, the output voltage changes by 10 mV.

Key Features:

- **High Accuracy**: ±0.5°C (typical) at 25°C
- No External Calibration Required
- Low Power Consumption
- Linear Output: 0°C = 0V, 100°C = 1V
- Operates from 4V to 30V Supply
- Low Self-Heating

Common Applications:

- Temperature monitoring in electronics and industrial systems
- HVAC (Heating, Ventilation, and Air Conditioning) systems
- Battery temperature monitoring
- Weather stations