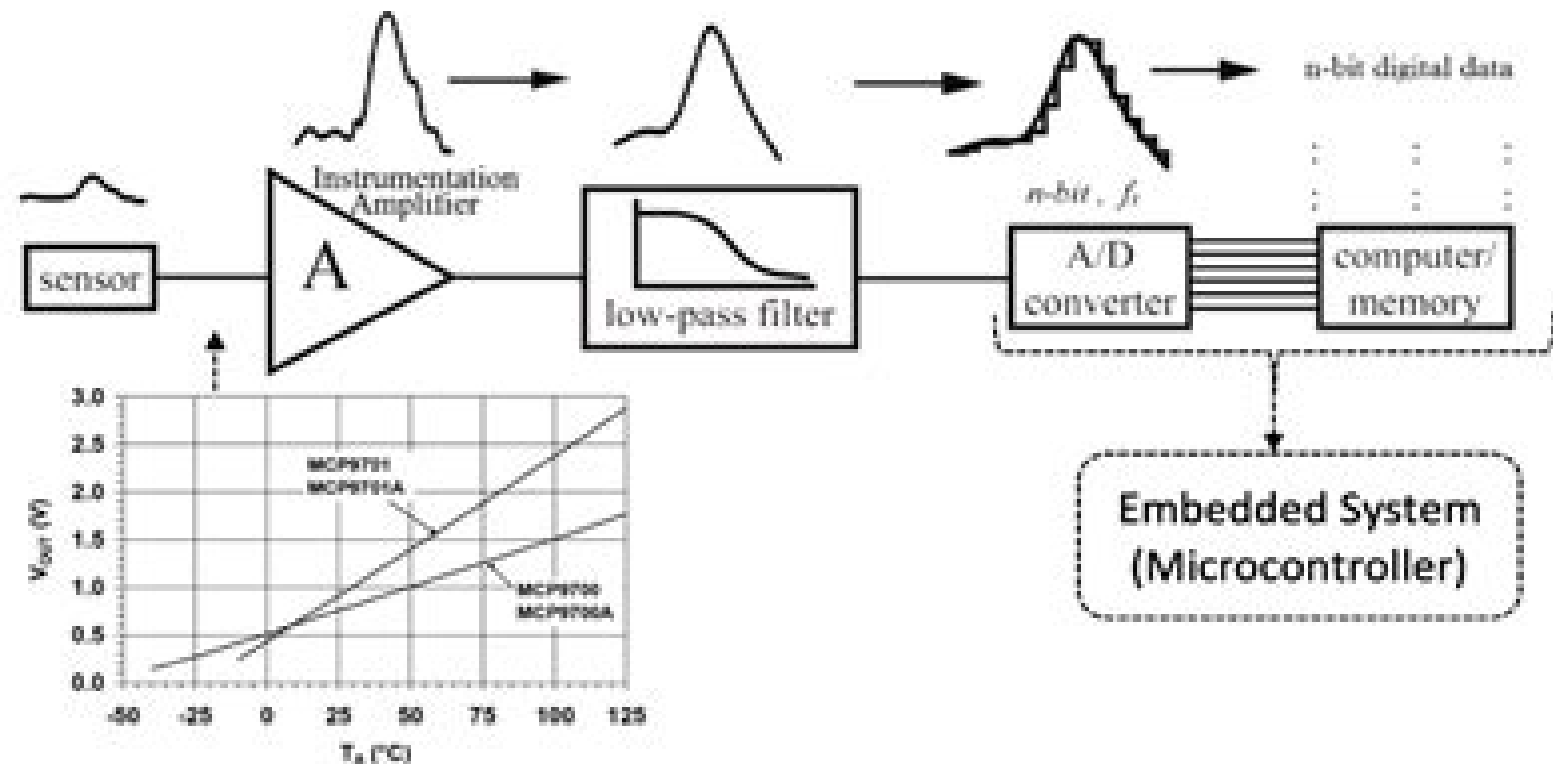


Q1. Consider block diagram of a sensor/measurement system as below. Characteristic diagrams of two thermal sensors (MPC9700 and MPC9701) are depicted.



This system is used to monitor temperature of a 1000-liter water tank for an industrial process control. Our microcontroller has a 5V power supply and two 10-bit ADCs with maximum sampling rate of 50 kHz.

- If we use an amplifier with $A=3$, what would be the measurement resolution for MCP9700 sensor? What would be the answer if we use MCP9701?
- Let us assume, we have appropriate amplification rate. What is the minimum required memory size (in bytes) to store 12 hours data of this system if we use MCP9700? What would be the answer if we use MCP9701?
- Specify an appropriate cut-off frequency for the LP filter if we use MCP9700. What would be the answer if we use MCP9701?

Sensors For Measurement And Control

Marcel A. Müller



Sensors For Measurement And Control:

Enjoying the Song of Expression: An Mental Symphony within **Sensors For Measurement And Control**

In a world eaten by screens and the ceaseless chatter of instantaneous transmission, the melodic splendor and psychological symphony produced by the prepared term often diminish into the backdrop, eclipsed by the relentless sound and disruptions that permeate our lives. However, located within the pages of **Sensors For Measurement And Control** a marvelous literary treasure brimming with fresh thoughts, lies an immersive symphony waiting to be embraced. Crafted by a wonderful musician of language, that charming masterpiece conducts readers on an emotional journey, well unraveling the concealed songs and profound impact resonating within each carefully crafted phrase. Within the depths of this moving analysis, we will explore the book is main harmonies, analyze its enthralling publishing model, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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