

In this paper, an intelligent temperature control and measurement system is designed, which is based on the STM32 series micro-controllers. The structure of the system's hardware is introduced in detail.

In this guide, we'll explore how to integrate different types of temperature sensors with STM32 microcontrollers. We'll cover both the internal temperature sensor that comes built into many STM32 ...

The temperature sensor is internally connected to Channel 16 (ADC_IN16) of the ADC (analog-to-digital converter) in the STM32L1x and is used to sample and convert the temperature sensor output voltage.

High-definition temperature sensing based on the natural Rayleigh backscatter in optical fiber delivers a virtually continuous line of temperature measurements with sub-millimeter spatial resolution.

Target description The purpose of this tutorial is to explain how to perform measurements with the sensors available in the STM32L4 Discovery kit and in the B-U585I-IOT02A Discovery kit. A step by ...

A practical distributed FBG temperature sensor system based on the STM32 processor platform is presented in this paper and this FBG sensing system can realize single-channel and multi ...

This paper reviews the sensing principle, structural design, and temperature measurement performance of fiber-optic high-temperature sensors, as well as recent significant ...

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Micronor Sensors offers a complete range of fiber optic temperature sensors, probes and interfaces for high precision temperature measurement in challenging environments.



STM32-based fiber optic temperature sensor

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