

# Generator excitation wind temperature



## Overview

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The surface temperature of an excitation winding can be measured by an infrared (IR) thermometer.

## Generator excitation wind temperature



### [Generator Excitation System in Action: Field Engineer's](#)

Learn how generator excitation systems work in practice. Get real troubleshooting tips, and case studies from steam, gas, hydro, and wind plants

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### Measurement of Excitation Winding Temperature on

A new measurement method for infrared (IR) surface temperature measurement of excitation winding in rotation is presented. The method is

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[Understanding Generator Excitation Systems in Power](#)

The Ovation platform offers a native generator exciter and excitation control system with capabilities such as high-speed oscillography, dynamic



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[An Extensive Review on Generator Excitation System Modeling.](#)

In this paper, the simulation results show the accuracy and performance of observer-based nonlinear excitation controller by comparing with the exact linearizing controller where the control law is



**What is an Excitation System?**

Thus, the excitation system controls the output voltage of the generator by adjusting DC current to the generator field winding. Excitation

systems have two general

[The analysis of the infrared excitation winding surface temperature](#)

Abstract: Excitation winding temperature is used for determination of the dynamic limit in the P-Q diagram of a synchronous generator. The surface temperature of an excitation winding can be



[Analysis of the Temperature Field of a Low-Speed Synchronous](#)

Abstract Analysis of the thermal state of an electric machine at the design stage is an integral part of any project. When creating large high-load generators, reliable information about the

[Analysis, Modelling and Design Considerations for the Excitation](#)

In this paper, a detailed investigation of these aspects is done and an accurate voltage drop prediction model is then proposed. The model is validated with finite element analysis and with experimental



**Generator Excitation 101**

A generator has a prime mover like a turbine or diesel generator. The excitation system creates the electromagnetic field in the rotor. The stator has the armature winding that has the electrical energy

**Generator Excitation: What Is Generator Excitation?**

What is Generator Excitation? We cover everything you need to know about excitation control systems and methods in generator sets.





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