

The industrial control computer loses power when connected to the switch



Overview

Possible Causes: Faulty communication cables, incorrect network settings, hardware failure in the PLC or communication module. Check all cables and connections for damage or looseness. Test communication with a known. When the blinking lights on automation devices stop blinking, the control cabinet is often the go-to troubleshooting culprit, but how do you make the best judgments for quickly locating the problem?

Every technician or controls engineer has been in a situation where the status lights on a device. Then check the power supply, status lights, wiring, and communication systems, followed by testing I/O modules and reviewing the program for errors using diagnostic tools. Power Supply Issues One of the most common problems with PLCs is related. Since ICCs handle critical tasks such as production monitoring, data acquisition, and equipment control, sudden power loss can lead to production losses or, in severe cases, equipment downtime and safety risks. Industry experts emphasize that motherboard power loss is rarely caused by a single. Troubleshoot PLC faults systematically with an eight-step process covering power, CPU status, field I/O, communications, logic, safety, and documented recovery. Work through injected logic and wiring faults with graded feedback—the diagnostic practice a static article cannot provide. Whether you're a seasoned engineer or a maintenance technician, understanding how to troubleshoot common PLC problems can save you. PLC systems are integral components of many industrial machines, and their failure can be catastrophic in terms of production. Let's take a look at some of the most common PLC faults: 1. Electrical Failures Electrical issues can stem from power surges, voltage fluctuations, or short circuits.

Article Content

Causes of Power Loss in Industrial Control Computer Motherboards

In recent times, with the widespread adoption of industrial automation equipment across manufacturing, energy,

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Troubleshoot common PLC problems with our comprehensive guide. Learn about communication errors, program

Emergency Response Procedures for DCS/PLC System Failures:

Inspect air switches, ground faults, and bypass or replace faulty power switching devices. Follow step-by-step re-energization from

Tricks of the Trade: Troubleshooting Industrial Control Cabinets

If all power to the control panel is lost, this initial fuse set might be your first spot for troubleshooting. Measuring

How to Troubleshoot Industrial Control Systems | EOXS

One of the most common issues in industrial control systems is related to power supply failures or poor connections. Ensure that all

When Automation Communication Fails: How to Diagnose PLC,

This guide walks through the most common causes of industrial automation communication failures, how to diagnose

Common PLC Troubleshooting Methods Every Engineer Should Know

This guide explains the most common PLC troubleshooting methods used in industrial environments and provides

PLC Troubleshooting Guide: Common Issues and Tips to Resolve

Check the voltage levels and ensure the power supply meets the PLC's requirements. Additionally, inspect for loose

Common PLC Faults and Troubleshooting Procedures

Learn about the most common PLC faults and how to troubleshoot them. This blog post covers topics such as power supply issues,

PLC Troubleshooting: 8-Step Fault-Finding Guide (2026)

Follow an eight-step PLC troubleshooting process for power, CPU, I/O, network and logic faults, with LED checks,

Tricks of the Trade: Troubleshooting Industrial Control

If all power to the control panel is lost, this initial fuse set might be

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