

No response from the spectrometer



AI Overview

A spectrometer showing no response can result from power issues, lamp failure, detector problems, misalignment, calibration errors, or software/connection faults.

Initial Checks

- **Power and Connections:** Ensure the spectrometer is plugged in, switched on, and receiving stable power. Check for loose cables, USB connections, or Bluetooth pairing issues that may prevent data transmission to the software .
- **Warm-Up Period:** Many spectrometers require 15–30 minutes for lamps (deuterium for UV, tungsten for visible) to stabilize. Attempting measurements before this period can result in no readings .

Hardware Inspection

- **Light Source:** Verify that the lamp is properly installed and functional. Burnt-out or misaligned lamps can prevent light from reaching the detector .
- **Detector:** Check if the detector is receiving light. A malfunctioning or misaligned detector can cause zero readings .
- **Optical Components:** Inspect cuvettes, lenses, and mirrors for dirt, scratches, or misalignment. Contaminated or damaged optics can block or scatter light, leading to no signal .
- **Vacuum Pump (for OES or UV systems):** Ensure the vacuum pump is operational. A faulty pump can allow air into the optical chamber, preventing low-wavelength light from passing and causing absent readings .

Calibration and Software

- **Calibration:** Confirm that the spectrometer is properly calibrated using certified st...

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Therefore, I switch back to using the ANDOR Solis software to check if the spectrometer is responding or not. When I

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Both terms should be called spectral irradiance. Relative spectral irradiance mode corrects for wavelength

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In a similar way, FTIR spectroscopy can experience baseline deviations due to thermal expansion or mechanical

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Calibrate the spectrometer with the appropriate solvent. 6. Collect a spectrum with a known sample where the

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