Remote monitoring type of spectrometer

Overview

Another goal of the present invention is to provide a spectrometer remote control system in which any type of spectrometer can be used in order to allow performing any type of...

Article Content

Remote spectrometer control system

Another goal of the present invention is to provide a spectrometer remote control system in which any type of spectrometer can be used in order to allow performing any type of...

Remote Control and Monitoring of Fiber Optic

Fiber optic spectrometers can collect and transmit spectral data to a remote monitoring center in real time. These data can be displayed intuitively in

OPS Open Path Spectrometer | Bruker

OPS is an active remote sensing system based on Fourier-transform Infrared (FT-IR) spectroscopy which can accurately quantify gas compounds even at low

Passive Instruments

Passive instruments detect energy emitted or reflected from an object and include different types of radiometers and spectrometers. Most passive systems used in remote sensing

© 2026 ALFA PRO COMMUNICATION SYSTEMS (Pty) Ltd - All rights reserved

Remote Fiber Optic Spectroscopy—UV-Vis & Fluorescence | Agilent

Remote fiber optic spectroscopy is a sophisticated technique that uses fiber optic couplers, cables, and accessories to analyze samples at a distance from the spectrophotometer. The technique unlocks a

Near-Infrared Spectroscopy: Remote Fiber Optic Based

In this section, we explore the pivotal role of fiber optic probes in NIR spectroscopy, discusses various types optimized for specific applications, and

Remote Monitoring Systems

Remote monitoring systems for laboratory equipment can help ensure sample integrity and regulatory compliance by providing 24/7/365 monitoring of product and samples from anywhere in the world.

The next era of remote spectral imaging of the Earth''s surface

Imaging spectroscopy technology is transforming the way Earth is viewed from space, with applications across diverse science communities. A global imaging spectrometer mission with

Hyperspectral imaging

This monitoring is usually performed using extractive sampling systems coupled with infrared spectroscopy techniques. Some recent standoff measurements performed allowed the evaluation of

Sage Research Methods

Imaging spectrometers have significantly improved the understanding of interactions of photons with the surface and atmosphere. Spectroscopy has existed since the eighteenth century; the imaging part of

Near-Infrared Spectroscopy: Remote Fiber Optic Based

Near-Infrared Spectroscopy (NIR) offers important advantages in analytical chemistry, particularly in process monitoring and quality control across

Environmental Equipment & Supplies

Find & compare Environmental equipment for a variety of industrial applications from thousands of suppliers. Get accurate info & quotations for your projects.

EM 27 Open Path Spectrometer | Bruker

Highly Sensitive and Robust Remote Sensing System The environmental monitoring system EM 27 is an open path Fourier transform infrared (FT-IR) spectrometer,

© 2026 ALFA PRO COMMUNICATION SYSTEMS (Pty) Ltd - All rights reserved

Ground-based Remote Sensing with Open-path Fourier

This paper will provide an assessment of open-path Fourier-transform infrared (OP-FTIR) spectroscopy as part of a hierarchical monitoring concept. The technology is introduced as a

Long-term continuous monitoring of methane emissions at an oil

A method for methane emissions monitoring at industrial facility level was developed based on a high precision multi-open-path laser dispersion spectrometer combined with Bayesian

Low-cost spectrometers prove effective for plant health monitoring

Credit: Journal of Remote Sensing "We found that while there are differences in the magnitude of SIF values retrieved, both spectrometer types exhibited similar trends and sensitivities,"

Remote Fiber Optic Spectroscopy—UV-Vis & Fluorescence | Agilent

What Is Remote Fiber Optic Spectroscopy? Remote fiber optic spectroscopy is a sophisticated technique that uses fiber optic couplers, cables, and accessories to analyze samples at a distance

SIGIS 2 Gas Imaging Spectrometer | Bruker

Reliable Remote Gas Sensing and Imaging Proven in the Field SIGIS 2 is a remote gas sensing system based on the combination of an FT-IR spectrometer and a

Contact Us

Continue your research online:

Website: https://alfa-pro.co.za
Technical inquiry: https://alfa-pro.co.za/contact.html

This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

© 2026 ALFA PRO COMMUNICATION SYSTEMS (Pty) Ltd - All rights reserved