



Superior Results of ASTG's FTIR and Model 5000 PGPMS vs. Industry Standard Zahm Nagel for CO₂ Purity Analysis

Unlock Precision and Accuracy with ASTG's FTIR and The Model 5000 The Superior CO₂ Measurement Methods

When it comes to accurate and reliable CO₂ measurement, ASTG's FTIR (Fourier Transform Infrared Spectroscopy) and Model 5000 (Speed of Sound) technologies lead the way, outpacing the Zahm Nagel method. In rigorous testing, ASTG's FTIR and Model 5000 deliver superior CO₂ measurement accuracy and consistency across a wide range of samples.



Key Comparison: CO₂ Measurement Results

  				
Sample Number	Research + Grade CO ₂ Thru Gas Divider	Model 5000 (CO ₂ %)	ASTG FTIR (CO ₂ %)	Zahm & Nagel (CO ₂ %)
1	99.24	99.23	99.23	99.06
2	99.49	99.49	99.48	99.17
3	99.75	99.75	99.74	99.55
4	99.999	99.99	100.02	100.00

As the data shows, both ASTG's FTIR and Model 5000 consistently provide CO₂ measurements that are closer to the ideal target value, with results consistently exceeding the performance of Zahm Nagel. In particular, as the target sample moves further away from 100%, both ASTG's FTIR and Model 5000 results are more accurate than the industry standard Zahm Nagel.

Why does ASTG's FTIR and Model 5000 Outperform Zahm Nagel:



Higher Accuracy

ASTG's FTIR and Model 5000 consistently deliver CO₂ readings that are closer to the desired target value, ensuring superior precision for your applications.

Consistency Across Multiple Samples

Whether you are testing a few or many samples, ASTG's FTIR and Model 5000 methods show minimal variation across multiple runs, which is crucial for industries that rely on exact measurements.

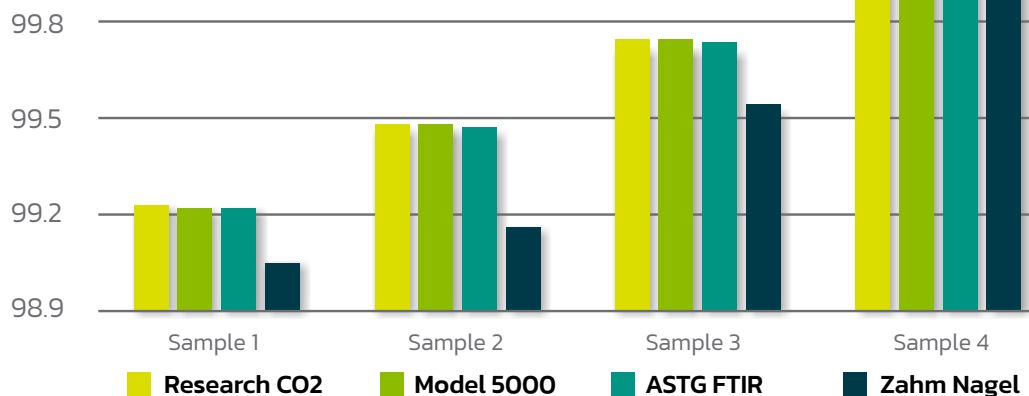
Unmatched Sensitivity

ASTG's FTIR and Model 5000 are ideal for detecting small variations in CO₂ levels, making them a perfect choice for demanding applications such as research, production quality control, and critical environmental monitoring.

Advanced Technology

The use of ASTG's FTIR and Model 5000 allows for real-time, high-throughput analysis with minimal sample handling, ensuring faster turnaround times with no compromise in quality.

Comparison of ASTG's FTIR & Model 5000 vs. Zahm Nagel for CO₂ Purity



Make the Switch Today for Superior CO₂ Measurement Accuracy

When precision, consistency, and efficiency matter, ASTG's FTIR and Model 5000 stand out as the best choice for CO₂ measurement. With advanced technology that ensures faster, more accurate results, you can trust ASTG's FTIR and Model 5000 to meet the demands of your most challenging applications.

Contact Us

For more information on ASTG's FTIR and Model 5000, or to request a demonstration, reach out today!



Analytical Science and Technologies Group
2 Spring Street, Newton, NJ USA 07860
1-888-363-2541 | info@astg.com | www.astg.com