



Quickly Obtain Your Ethanol Fuel Analysis!

Quick & Accurate Pure Ethanol Tests

Seamless Analysis for Better Time Savings

With no consumables or complicated facilities, you can perform non-destructive testing in the lab and field with Model E for ethanol purity to check if it meets requirements.

Reduce unnecessary costs in your blends with Model E's proprietary technologies.

Specialized Ethanol Fuel Analysis for Improved Cost Efficiencies

Testing accuracy and precision is vital to reducing product giveaway cost. To optimise product costs, Model E is specifically designed to provide enhanced accuracy and precision in ethanol fuel components, such as:

- Ethanol
- Water
- Methanol
- Denaturant
- Density
- Isopropanol

More accurate insights on composition will enable you to capture significant cost savings from improved process control and product blending.



Model E

Your choice analyzer in fulfilling certification needs and meeting regulatory requirements.

ASTM D5845: Standard Test Method for Determination of MTBE, ETBE, TAME, DIPE, Methanol, Ethanol, and tert-Butanol in Gasoline by Infrared Spectroscopy

Insights In Every Drop



The Pioneer in Semiconductor-Based Analyzers for Ethanol Fuel Testing

High Precision & Accuracy

It is in conformance with the existing industry standard of ASTM D5845. Model E also possesses proprietary chemometrics capabilities for enhanced accuracies in all blends of fuel ethanol and pure ethanol, as compared to industry standards.

Expansion of Database with Customers

Model E's engineering team is ready to work with customers to incorporate their unique matrix, if needed, into the database to ensure high accuracy regardless of sample sources.

Easy Cleaning

Requiring a small sample volume, Model E is easy to clean by simply flushing with the next sample, hence reducing downtime and increasing reliability.

Global Sales & Service Team

As a CFR Engines Inc. brand, you can expect the same global support network and service excellence.

Robustness with Proprietary Technologies

Leveraging on proprietary semiconductor technology, Model E eliminates the downsides from conventional FTIR analyzers (moving / fragile components, alignment issues, and sensitivity to vibrations) to provide unmatched accuracy and robustness.

User Friendly Interface

Equipped with a large (13.3") touch screen display, operators can effortlessly navigate through tests within the software.

Expedited Analysis

Model E is designed with color-coded metrics for easy interpretation and analysis of test results. Moreover, with automated calibration, no additional software setting changes are required for different samples.

Compact

Its light (50% lighter compared to peer products in the market) and compact design make Model E an ideal solution for firms that prioritize portability and reduced bench space.

Secure Data Management

Model E audit trail function enables detailed record of all prior measurements for quality assurance. With integrated data export function, historical measurements can be easily extracted to comply with strict regulatory requirements.

Technical Specifications of the Model E

Correlation ASTM	ASTM D7923, D6839, D7777, D6730, D5501, D4815, and conforms to D7777
Spectrometer Design	Patent-pending semiconductor based mid-IR spectrometer. Codesign of optical, electrical, and mechanical systems
Measurement Range	Ethanol - 0 - 100% mass Water - 0 - 10% mass Methanol - 0 - 100% mass Denaturant - 0 - 100% mass Density - 0.5 - 2g/cm ³ Isopropanol - 0 - 6% mass
Model Database	Advanced optimization chemometrics and expandable
Optional Autosampler	Test up to 8 samples simultaneously
Measurement Time	≈ 60 seconds
Sample Volume	3 mL
Cleaning	20 mL of the next sample
Display Screen	13.3" Lab-grade Color Touch Screen
Software	WI Instruments Fuel Analyzer Interface - for ease of data management and analysis
Interface	Built-in computer with USB-A port for easy data access
Storage Space	80 GB, storing more than 4 million analyses
Power Requirement	Input: 100 ≈ 240 Vac / 50 ≈ 60 Hz Output: 65W Adaptor (19V @ 3.15A Adapter)
Dimensions / Weight	395.1 mm X 322.3 mm X 307.5 mm Approx. 5 kg
Robust Design	Durable, Portable, and Intuitive Interface