

Petrochemical Science & Technology

PAC - Petroleum (Oil & Gas) Analyzers - International

ASTM Compliance Products include:

- SIMDIS Analyzer (determination of true boiling point data from naphtha up to crude oil samples)
- Reformulyzer® M4 (multi-dimensional separation)
- Viscometer & Density (Fastest and Most Versatile Viscometer and Density Meter)
- Freeze, Viscosity & Density (measures freeze point, viscosity and density)
- Cloud & Pour Point (with ultra-low temperature capabilities)
- Atmospheric Distillation & Heater Tube Tester (SAF Analysis)
- Viscometer (patented sensor technology)
- Flash Point (Pensky Martens method)
- Vapor Pressure of organic solvents



SIMDIS Analyzer



Reformulyzer® M4



Customized GC



Viscometer & Density



Freeze, Viscosity & Density



Heater Tube Tester



Cloud & Pour Point



Flash Point



Vapor Pressure



Distillation



Viscometer

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Aero Laser - THC in H₂ - Germany

In the rapidly advancing world of hydrogen energy, the quest for its purity is an imperative issue. As the industry strides towards a cleaner, more sustainable future, the HydroPRO THC in H₂ analyzer emerges as a vital analytical tool to ensure the highest purity levels in hydrogen.



HydroPro Total Hydrocarbon (THC) in H₂

Z-Spec - HDXRF (S in Marine Fuel Measurement) - USA

Sulphur in Marine Fuel driven by HD XRF® platform ensure sulphur compliance for IMO 2020 & ECAs. Since 2015, SECA restricted emissions to 0.1% of sulphur content within 24 nautical miles from shores. On January 1, 2020, the International Maritime Organization's (IMO) revised MARPOL Annex VI rule went into effect, which further lowered the maximum global sulphur cap for emissions from 3.50% to 0.50%. The Emission Control Areas (ECAs) remains at the 2015 level of 0.10% sulphur content. To ensure compliance with both regulations, merchant ships need to strictly monitor sulphur content in fuel. Z-SPEC's Sea16 was designed to meet these needs with easy, rapid, and precise sulphur analysis.



HDXRF For S in Marine Fuel

PAC - Fuel Analyzers - USA

MFA-70Xi marine fuel analyzer measures cloud point, pour point, viscosity and density of light marine distillate fuels like DMX, DMA, DMZ, and DMB. It is completely self-cleaning, and completes all the tests in less than 25 minutes. Instrument is compliant with ASTM D7945, D5773, D5949, and D7770

OptiFuel FT-IR is compliant to ASTM D8340's standard practice for spectroscopic analyzer. It tests gasoline fuel parameters at a confidence level similar to primary test methods. Therefore, the OptiFuel can now be employed in laboratory settings to determine gasoline properties effectively and efficiently.



Marine Fuel



Optifuel FT-IR Analyzer

NightLight - NIR (On-Line Process) - China

Near InfraRed (**NIR**) Spectrometer is the first scientific instrument ever used AI to conduct data analysis. At that time, no one called it as AI. Hundreds of samples are used to build a statistical model to reflect the quality of petrochemical processes (such as **Resin Synthesis, Plasticizer & Plastic Pellet production, Methanol Recovery, Moisture Detection, Oxidation, Hydrolysis, Chlorination, Esterification, Acrylic Acid production**, etc).



On-Line Process NIR

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