



A Leading Global Manufacturer of Advanced Analytical Instrumentation

for Laboratory and Online Process Analytics

**We are committed to delivering
comprehensive global sales and service
support with 13 offices and a network
of over 140 distributors worldwide.**

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MOVING THE WORLD FORWARD,
SAFELY AND SUSTAINABLY



Company Overview

PAC empowers global customers across various industry sectors, enhancing their efficiency through innovative solutions by designing, manufacturing, and marketing advanced lab and online analytical instruments, along with a digital platform for real-time analytics.

With decades of knowledge and expertise, our instruments consistently deliver unmatched performance and value, backed by comprehensive global support consisting of 13 sales and support offices and a network of over 140 distributors, contributing to the safe and sustainable advancement of industries worldwide.

PAC complies with ISO 9001 and ISO 17025 standards, which guarantees the quality of our products and reaffirms our commitment to quality, precision, and customer support.



RENEWABLES



PETROCHEMICALS



**MEDICAL
TECHNOLOGY**



**GLOBAL
PROJECTS**



Our Brands

PAC has combined the world's most respected and long-established brands of analytical and testing equipment. Each of our brands have long histories of developing best-in-class analytical instrumentation for lab and process applications. In fact, the dynamic synergy of the PAC team and its unique technologies has led to the development of unique, cutting-edge instruments.

PAC offers a full range of instruments for distillation, sulfur/nitrogen, viscosity, flash point, cold flow, and oil-in-water analyses by recognized PAC brands: AC, Advanced Sensors, Alcor, Antek, Cambridge Viscosity, Emcee, Herzog, ICON, ISL, Phase Technology, and Uson. These brands have long histories of providing innovative, highly dependable, and exceptionally accurate instrumentation.

In close cooperation with various standards organizations throughout the world, PAC continuously introduces innovative instruments and applications which strictly adhere to various standards by ASTM, CEN, DIN, GPA, IP, ISO, and UOP

The world's leading and longest-standing analytical solutions brands,
united under one organization.





Services, Support, and Training

At PAC, we're dedicated to providing comprehensive service and support to our customers. From preventive maintenance, calibration, repairs, and even relocation services, we cover all bases to ensure maximum quality and compliance with standards and regulations.

Additionally, in-depth training is offered either at PAC and channel partner facilities worldwide or directly at the customer's facility to help maximize performance and minimize downtime. Our training programs offer both theoretical knowledge and practical skills for PAC systems, focusing on troubleshooting, maintenance, calibration, and more.

In alignment with our commitment to quality, all work is performed by skilled certified service technicians. Additionally, our Service Centers around the world are ISO-9001 and 17025 certified. Our facility in Verson, France, is ISO 14001 certified, meeting the internationally recognized standard for environmental management systems.



Certified Reference Materials

PAC offers a comprehensive range of Certified Reference Materials (CRM), calibration standards, and reference samples to support reliable and accurate testing. Regular verification of your instrument's performance ensures consistent quality, strong inter-laboratory correlation, and dependable test data that meet the highest industry standards.

PAC certified reference materials:

- Feature certified values established through international round-robin testing across a minimum of 12 laboratories
- Meet traceability requirements for ISO/NAMAS accreditation
- Ensure dependable instrument performance and test quality
- Identify testing bias early to prevent impact on product quality

PACE

DIGITAL ECOSYSTEM



PAC Digitizes Our Institutional Knowledge and Makes It Available to Our Customers

Empower Your Lab with PACe

As a trusted solution provider with a global footprint, PAC introduces a new and unique tool for PAC instruments which are compatible with PACe. PACe facilitates a smooth transition of instruments into an integrated digital solution, empowering your organization with enhanced insights and operational efficiencies.

PACe is designed to assist the laboratory, multiple sites, and organizations to manage assets by calculating costs, forecasting capacity, and optimizing workflows seamlessly

Empower your lab to attain greater efficiency and profitability by leveraging the power of PACe to make informed decisions that can enhance productivity and throughput. It's time to eliminate guesswork and embrace data-driven insights to move your operations forward.

Asset Management

Around the clock status monitoring to reach the desired annual throughput and to identify hidden instrument capacities.

Instrument Insights

Real-time alerts from every instrument connected to PACe, to a desktop, tablet, or mobile device. This will allow you to see optimization opportunities in throughput and instrument irregularities for real-time decision making, without having to visit each instrument.

Proactive Maintenance

Instrument maintenance is vital and with PACe, you'll be able to diagnose, predict, and help prevent errors, with automated and real-time condition monitoring using the instrument's history to more accurately predict when maintenance will be required.



Why Choose IRIS?

IRIS is PAC's innovative laboratory results management and reporting software. It seamlessly connects all your lab instruments, whether they are in the next room or across the globe, allowing you to manage them from one centralized system.



Streamline Operations

No more juggling multiple software platforms. With IRIS, everything is in one place, saving valuable time.



Enhance Productivity

Need to reprocess data? IRIS lets you reprocess without rerunning samples, speeding up your workflow.



Stay Compliant

IRIS meets security and quality protocols, keeping your lab operations aligned with industry standards.



Optimize Performance

IRIS helps your lab work smarter with real-time insights and streamlined workflows for high-quality results.





Gas Chromatography Solutions



**Hi-Speed
Refinery Gas
Analyzer**



**Reformulyzer
M4®**

Category	Full Composition Analysis									
Model	NGA	HiSpeed RGA FastRGA LPG	DHA Analyzers		Reformulyzer® M4	Reformulyzer M4 Prefrac	GCxGC-FID	MDA Analyzer (HPLC)	Productivity Center	
			Regular	DHA Front End					AC8612™ Analyzer	AC8634™ Analyzer
Standard Method	D1945 ISO 6974 GPA 2261 Extended NGA: ISO 6975, ISO 6976, GPA 2172, GPA 2286, GOST 31371	D1946, D2163, D2598, D3588, EN ISO 7941, IP 405, EN 15984, UOP 539, GOST 31371, GOST R 54484	AC Fast DHA D6729, D6730, D5134, D6733, GOST R 52714, GOST 54275	D7900, EN 15199-4, IP 601,	EN ISO 22854, D6839, D5443, IP 566, SH/T 0741, GB/T 28768	EN ISO 22854, ASTM D6839, ASTM D5443, IP566, SH/T 0741, GB/T 28768-2012	D8396	D6591, EN 12916, IP 391, GOST R EN 12916, D6379, IP548, IP436	Reports D86 correlation for groups 0,1, and 2 GOST 2177	D86 correlation for groups 3 and 4 , D2887, EN ISO 3924, IP 406, GOST 2177
Application	NGA: C1-C6, C6+ hydro carbons, Hydrogen sulfide Extended NGA: C1-C14, C14+ hydrocarbons, Non-condensable gases: nitrogen, carbon dioxide and oxygen, hydrogen sulfide	Non- condensable Gases, C1-C5, C5+ hydro carbons	C1 - nC14 ethanol, Butanol, MTBE/ETBE/ TAME, methanol, t-Butanol	Light Hydrocarbons in Crude	Hydrocarbon Group Types and Oxygenates	Hydrocarbon Group Types and Oxygenates	Paraffins, Naphtenes, Aromatics, FAMES	Mono-, Di-, and Poly-ring aromatics	Simulated Distillation, Atmospheric Distillation, Gasoline	Simulated Distillation, Atmospheric Distillation
Refinery Gas		✓								
Natural Gas	✓									
Biogas	✓									
LPG		✓								
Gas in Petrochemical		✓								
Straight Run/ Naphtha			✓	✓	✓				✓	
Depentanized Bottom			✓	✓	✓				✓	
Reformate			✓	✓	✓				✓	
FCC-Light			✓	✓	✓				✓	
FCC-Middle					✓					
FCC-Heavy					✓					
Visbreaker			✓	✓	✓				✓	
Alkylate			✓	✓	✓				✓	
Isomerate			✓	✓	✓				✓	
Gasoline Blend			✓	✓	✓				✓	
Gasoline with Oxygenates			✓	✓	✓				✓	
Jet Fuel							✓	✓		✓
Diesel							✓	✓		✓
Micro Activity Testing						✓				
Lubricant (stock base) with and without Oxygenates										
Thermal Crack Feed										
Crude Oil				✓						
Residue										
Biofuels							✓	✓		

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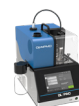
Physical Properties Solutions

Cold Behavior



Model	OptiCPP	OptiFPP	OptiMPP	70Xe Series	ISL OptiFZP	WAT-70Xi
Description	Cloud & Pour Point	Cold Filter Plugging Point	Cloud & Pour Point (mini method)	Cloud, Pour & Freezing Point	Freezing Point	Wax Appearance Temperature
Standard Methods	ASTM D2500, D5771, D5853, D5950, D97, IP 15, IP 219, IP 444, ISO 3015, ISO 3016, JIS K2269, SH/T 0886	EN 16329, EN 116, D6371, IP 309, JIS K2288, GOST 22254, SH/T 0248	ASTM D7346, D7689 Equivalent to: ASTM D97, D2500, ISO 3015, ISO 3016, JIS K2269	ASTM D5773 / IP 446, D5949 / SH/T 0771 / ISO/TS 23877-2, D5972 / IP 435 / SH/T 0770 Equivalent to: ASTM D2500 / IP 219 / ISO 3015, ASTM D97 / IP 15 / ISO 3016, ASTM D2386 / IP 16 / ISO 3013	ASTM D7153, D2386, IP 16, IP 529, ISO 3013, JIS K2276,	ASTM D8420 Equivalent to: ASTM D5773 (IP446), ASTM D2500 (IP 219 / ISO 3015)

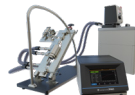
Flash Point



Model	OptiFlash Pensky Martens	OptiFlash TAG	OptiFlash ABEL	OptiFlash Small Scale	OptiFlash CoC	OptiDist 2	OptiPMD	HDV 632
Description	Pensky Martens Flash Point	TAG Closed Cup Flash Point	ABEL Closed Cup Flash Point	Small Scale Flash Point	Cleveland Open Cup Flash Point	Atmospheric Pressure Distillation	Atmospheric Micro-distillation	Vacuum Distillation
Standard Methods	ASTM D93, EN ISO 2719, IP 34, ISO 2719, JIS K2265, GB/T 261, GOST R EN ISO 2719	ASTM D56, DEF STAN 91-091	EN ISO 13736, IP 170, DEF STAN 91-091	ASTM: D3828, D3278, D7236 ISO: 3679, IP:523, 524, 534	ASTM D92, ISO 2592, GOST 4333	ASTM: D86, D1078, D850, IP 123, IP 195, EN ISO 3405, GOST 2177, GB/T6536, DEF STAN 91-091	ASTM D7345 and IP 596. Correlation to ASTM D86, ASTM D1160 (B100), ISO 3405, IP 123	ASTM D1160, GOST 11011

Distillation

Viscosity



Model	OptiMVD	70Xe Series	ViscoLab 3000	ViscoLab 4000	ViscoLab PVT+	HVM 472	VH1, VH2
Description	Constant Pressure Viscometer and Density Meter	Jet Fuel & Diesel Viscosity and Density	Temperature Controlled Viscometer	Small Sample Viscometer	High Pressure Viscometer	Multirange Viscometer	Houillon Viscometer
Standard Methods	ASTM: D7945, D7777 Equivalent to: ASTM D445 (IP 71/ISO 3104)	ASTM D7945 / IP 641 / ISO 18335, ASTM D7777 Equivalent to: ASTM D445 / IP 71 / ISO 3104 Correlated to: ASTM D4052 / IP 365 / ISO 12185	ASTM: D7483, D445	ASTM: D7483, D445	ASTM: D7483, D445	ASTM: D445, D446, IP 71, ISO 3104, EN ISO 3104, ISO 3105, GOST 33, GB/T 265	ASTM D7279

Fuel Analysis



Model	DTOT	JFTOT IV	OptiReader	OptiFuel	70Xe Series
Description	Diesel Thermal Oxidation	Jet Fuel Thermal Oxidation	Ellipsometric heater tube scanner	Gasoline, Diesel & Jet Fuel FTIR	Jet Fuel & Diesel Cloud, Pour, Freezing Point, Viscosity & Density
Standard Methods		ASTM D3241, IP 323, ISO 6249, DEF STAN 91-091	ASTM D3241 Annex 4 ASTM D1655, ASTM D7566	ASTM: D6277, D7371, D5845, D7777, ISO 15212 Correlates to: D2699, D2700, D5191, D86, D6839, D613, D4737A, EN ISO 5164, EN ISO 5163, EN 13013-1, EN ISO 3405, EN ISO 22854, EN ISO 5165, ISO 4264 Method Applications: D975, D4814, EN 228, EN 590	ASTM D5773 / IP 446, D5949 / SH/T 0771 / ISO/TS 23877-2, D5972 / IP 435 / SH/T 0770, ASTM D7945 / IP 641 / ISO 18335, ASTM D7777 Equivalent to: ASTM D2500 / IP 219 / ISO 3015, ASTM D97 / IP 15 / ISO 3016, ASTM D2386 / IP 16 / ISO 3013, ASTM D445 / IP 71 / ISO 3104 Correlated to: ASTM D4052 / IP 365 / ISO 12185

Electrical Conductivity



Model	1152 Digital Conductivity	1153 Digital Conductivity	1154 Precision Conductivity
Description	Intrinsically Safe Conductivity Meter	Multi-Range Digital Conductivity Meter	Precision Rest Conductivity Meter
Standard Methods	ASTM D1655, D7566	ASTM D2624	ASTM D4308

Water Separation / Surfactant Detection



Model	1140 Micro Separometer
Detection	Fuel Water Separation
Standard Methods	ASTM D3948 (Jet), ASTM D7224 (Jet), ASTM D7261 (Diesel), ASTM D4860 (Jet or Diesel)



Specialized Solutions



Model	Cetane ID 510	MCRT 160	NCK 2 5G	HVP 972	RB36 5G
Description	Derived Cetane Number	Micro Carbon Residue	Noack Evaporation Loss	Vapor Pressure	Ring and Ball
Standard Methods	ASTM D7668, EN 16715, IP 615, GOST R 58440 Equivalent to: ASTM D613, ISO 5165, IP 41, IP 615, EN 16715 Diesel specs: ASTM D975, D6751, D7467, EN 590, GOST R 52368	ASTM D189, D4530, DIN 51551, GB/T 17144, IP 398, ISO 10370, ISO 6615, JIS K2270, GB/T 17144	ASTM D5800, CEC L 40 A 93, IP 421	ASTM D5191, D6378, EN 13016, IP 394	ASTM D36, E28, EN 1427-1, IP 58, EN ISO 4625

Elemental Analysis



Model	ElemeNtS (Vertical)	ElemeNtS (Vertical)	ElemeNtS (Vertical)	ElemeNtS (Horizontal)	ElemeNtS (Horizontal)	ElemeNtS (Horizontal)
Detection	Nitrogen	Sulfur	Nitrogen + Sulfur	Nitrogen	Sulfur	Nitrogen + Sulfur
Measurement Principle	Chemiluminescence	Ultra-Violet Fluorescence	Combination of Chemiluminescence and Ultra-Violet Fluorescence	Chemiluminescence	Ultra-Violet Fluorescence	Combination of Chemiluminescence and Ultra-Violet Fluorescence
Standard Methods	ASTM: D4629, D5176, D7184, DIN 51444, SO/TR 11905, GB/T 17674, UOP 936, UOP 981, UOP 971, EN 12260, SH/T 0657, GB/T 17674, SH/T 0657	ASTM: D5453, D6667, D7183, D7551, EN 17178, EN-ISO 20846, EN 15486, ISO 20729, JIS K 2541, IP 554, IP 490, UOP 989, GOST R 56866, GOST R 56342, UOP 987 Part A, SH/T 0689	See Nitrogen + Sulfur	ASTM: D4629, D5176, D7184, DIN 51444, SO/TR 11905, GB/T 17674, UOP 936, UOP 981, UOP 971, EN 12260, SH/T 0657, GB/T 17674, SH/T 0657, D5762, ASTM D5762	ASTM: D5453, D6667, D7183, D7551, EN 17178, EN-ISO 20846, EN 15486, ISO 20729, JIS K 2541, IP 554, IP 490, UOP 989, GOST R 56866, GOST R 56342, UOP 987 Part A, SH/T 0689	See Nitrogen + Sulfur + ASTM D5762

Our instruments can be customized to your specific needs. Due to continuing product development, specifications are subject to change at any time without notice.

Leak Testing Solutions



Model	Astra Dash	Sprint mD	Sprint iQ
Description	Modular Multi-Channel Leak and Flow Instrument	Benchtop High-Sensitivity Multi-Channel Leak and Flow Instrument	Legacy Benchtop Multi-Channel Leak and Flow Instrument
Pressure Range	Standard Vacuum up to 750 psi (5.170 kPa)	Standard Vacuum up to 150 psi (1.035 kPa) High Pressure up to 750 psi (5.170 kPa)	Up to 500 psi
Flow Range	Up to 20 L/min	Up to 20 L/min	Up to 20 L/min
Channel Configuration	Up to 4 Synchronous or Independent Channels	Up to 4 Synchronous or Independent Channels	Up to 4 Synchronous or Independent Channels
Test Method	Back Pressure Flow Crack (Pressure) Crack (Flow) Creep Differential Pressure Decay Differential Vacuum Decay Mass Flow Occlusion Pressure Burst Pressure Decay Sealed Component Vacuum Burst Vacuum Decay	Back Pressure Flow Burst (Pressure) Crack (Upstream/Downstream) up to 150 psi Exercise/Fluff Flow up to 150 psi Mass Flow Test up to 150 psi Occlusion (Blockage) Pressure Decay Seal Creep Sealed Component Vacuum Burst	Back Pressure Flow Burst (Pressure) Continuous Flow Crack (Upstream/Downstream) Exercise/Fluff Flow Mass Flow Test Occlusion (Blockage) Pressure Decay Seal Creep Sealed Component Vacuum Burst



Model	Qualitek mR	Optima vT	Vector
Description	Benchtop High-Flow, Multi-Range Leak and Flow Instrument	Custom Leak and Flow Instrument for Automated Manufacturing	Legacy Custom Multi-Channel Leak and Flow Instrument for Automated Manufacturing
Pressure Range	Standard Vacuum up to 150 psi (1.035 kPa) High Pressure up to 750 psi (5.170 kPa)	Vacuum up to 1,500 psi	Vacuum to 1,500 psi
Flow Range	Up to 225 psi/15 bar differential Up to 500 psi/35 bar gauge	Up to 500 L/min	Up to 1000 L/min
Channel Configuration	Up to 1 Synchronous Channel	Up to 2 Synchronous, Independent, or Coordinated Channels	Up to 10 Synchronous, Independent, or Coordinated Channels
Test Method	Back Pressure Flow Differential Mass Flow Differential Pressure Decay Differential Vacuum Decay Exercise/Fluff Flow Force Decay Mass Flow Test Occlusion (Blockage) Pressure Decay Pressure Rise Sealed Component	Back Pressure Flow Burst (Pressure) Continuous Flow Crack (Upstream/Downstream) Differential Mass Flow Exercise/Fluff Flow Mass Flow Test Occlusion (Blockage) Pressure Decay Seal Creep Sealed Component	Burst (Pressure) Continuous Flow Crack (Upstream/Downstream) Differential Mass Flow Differential Vacuum Decay Exercise/Fluff Flow Laminar Flow Mass Flow Test Occlusion (Blockage) Pressure Decay



Improve Production Through Real-Time Process Optimization and Control

As a leading producer of innovative and reliable process solutions for a wide range of industries, PAC's Process Solutions demonstrates a commitment to excellence by delivering cutting-edge products.

PAC products are designed for a range of applications, including:

Oil Production and Produced Water Separation: Oil-in-water and water-in-oil solutions aid in the production and management of produced water and oil. With our brand Advanced Sensors being the No 1 player in the upstream for oil in water measurement.

Gasoline & Diesel Blending: Our complete ecosystem of measurements includes the unique Ethanol Blend Optimizer, enabling customers to save millions of dollars in giveaway.

Petrochemical & SAF/Jet Fuel: We offer solutions for a range of applications, from measuring distillation and cold properties for sustainable aviation fuel (SAF) and jet fuel to protecting catalysts in petrochemical processes by monitoring nitrogen and sulfur levels. We also provide tools for measuring vapor pressure and distillation at terminals.

With many more applications available, PAC offers numerous opportunities to improve your processes and benefit from our wide range of products and technologies, ultimately helping you save money and protect the environment.

PAC technology that is integrated from process to lab, building confidence in what you do

PAC's integrated measurement and testing capabilities provide the data you need to balance supply and demand, optimizing your run rates and keeping your processes operating at peak efficiency. We offer solutions for distillation, flash point, viscosity, cold behavior, sulfur and nitrogen analysis, oil-in-water / water-in-oil measurement, vapor pressure, hydrogen, and color opacity. Many of these technologies are also found in our lab versions, making it easier to correlate back to the lab with confidence.

Process Analyzer Solutions

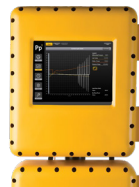
**Total Nitrogen
& Sulfur**



**Atmospheric
Micro-Distillation**



**Atmospheric
Pressure Distillation**



**Vapor Pressure
Analysis**



**Ethanol Percentage
in Gasoline**



Model	NSure	MicroDist	Icon Distillation Analyser	Icon Vapour Pressure Analyser	Icon Ethanol Blend Optimizer
Standard Methods	Sulfur: ASTM D5453, D6667, EN ISO 20846 Nitrogen: ASTM D4629, D5176, DIN 38409-27, TEIL 27, EN12225	ASTM D86, ASTM D7345, IP 123	ASTM D86, IP 123, ISO 3405	ASTM D5191, D6378, D6378, D6377, Correlates to D323, D4953, D5190, D5188, D5482	Removes the guess work from predicting what the impact of ethanol has on BOB

Cloud Point



**Cold Filter
Plugging Point**



Pour Point



Freeze Point



Flash Point



Model	Icon Cloud Point Analyser	Icon CFPP Analyser	Icon Pour Point Analyser	Icon Freeze Point Analyser	Icon Flash Point Analyser
Standard Methods	ASTM D5771, D5772, D5773 (Correlates to ASTM D2500)	ASTM 6371	ASTM D97, D5853, D5949, D5985	ASTM D2386, D5972 and D7153	ASTM D56, D92, D93, IP170

Viscosity



**Cetane Number
Analysis**



**Color Opacity
Analysis**



**Hazardous Area
Oil-in-Water**



**Ordinary Area
Oil-in-Water**



Model	ViscoPro 2100	Icon Viscosity Analyser	Icon Cetane Number Analyser	Icon Color Opacity Analyser	X-One	S-One
Standard Methods	ASTM D445, D7483	ASTM D445, D2270	Correlates to ASTM D7668	ASTM D1500, D156, D1209		



About PAC

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With decades of knowledge and expertise, our instruments consistently deliver unmatched performance and value, backed by comprehensive global support consisting of 13 sales and support offices and a network of over 140 distributors, contributing to the safe and sustainable advancement of industries worldwide.



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