PAC

PAC IRIS SOFTWARE

RGA/NGA XLNC For IRIS Software

Easy-to-Use Calculation and Reporting Software for Gas Analysis Standards

- Includes Extensive Range of Report Options and Calculations
- Users can add and customize Calculations to their Specific Needs
- High Level of Automation contributes to Optimized Analysis Accuracy and Precision
- In Compliance with Various Refinery and Natural Gas Standard Test Methods

WORKFLOW

SIMPLIFIED DATA IMPORT

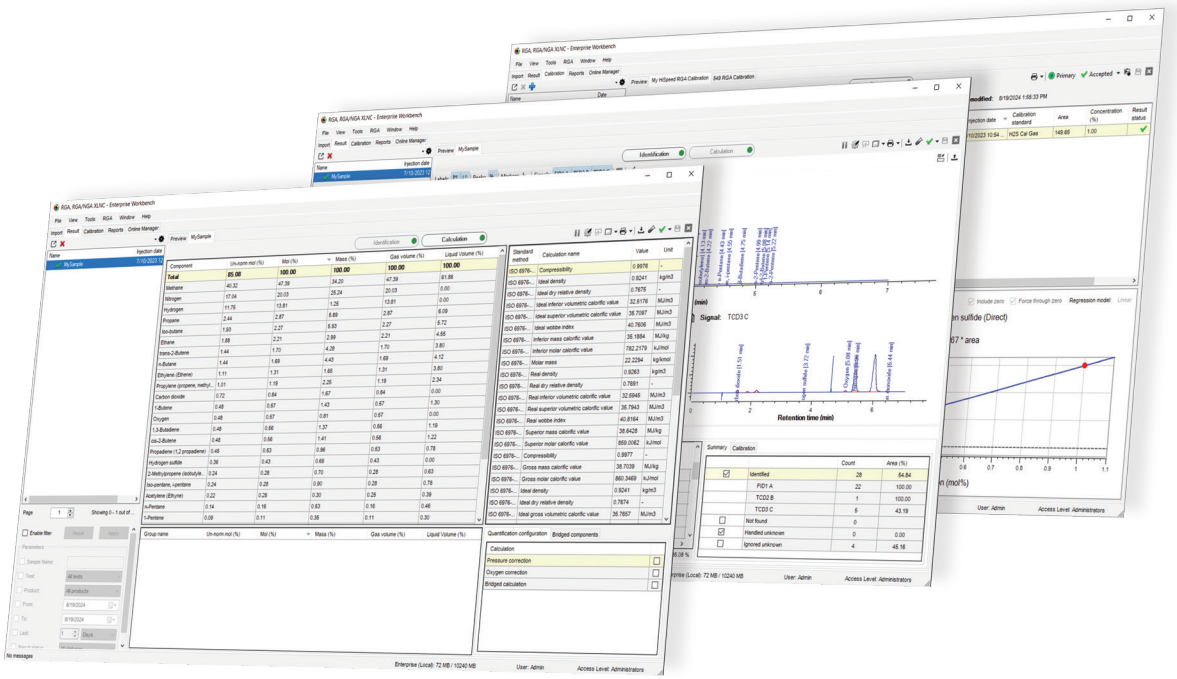
- IRIS software, data can be automatically imported
- Can support data from CDS converted into AIA/CDF according to ASTM E1947
- Adjustable to your setup and process

ANALYSIS

- Automatic identification
- Simplified adjustment with click and drag features

CALCULATIONS

- Physical properties included for all supported standards and conditions
- Properties at different (metering) conditions
- Supports user added calculations



ADVANCED OPTIONS

- Calculation for oxygen correction
- Bridge calculation across system channels
- Advanced peak identification for individual peaks or peak groups
- Unknowns handling
- Uncertainty and error propagation calculations, sample repeats and working reference correction (additional ISO 6974 Option required)

STANDARD TEST METHOD

- ISO 6976, ISO 8973, ISO 6974 (full ISO compliance requires ISO 6974 Option)
- EN 15984 / DIN 5166, EN 589
- ASTM D3588, ASTM D2598, ASTM D1945, ASTM D1946
- GPA 2172, GPA 2261, GPA 2286, GPA 2145

CALIBRATION

- Setup multiple calibration sets
- Track expiration dates and certificates
- Add sample uncertainties (ISO 6974 Option required)

REPORTING

- Print flexible reports in the format you need (pdf, xlsx)
- Export to file, LIMS
- Customizable and self-created templates

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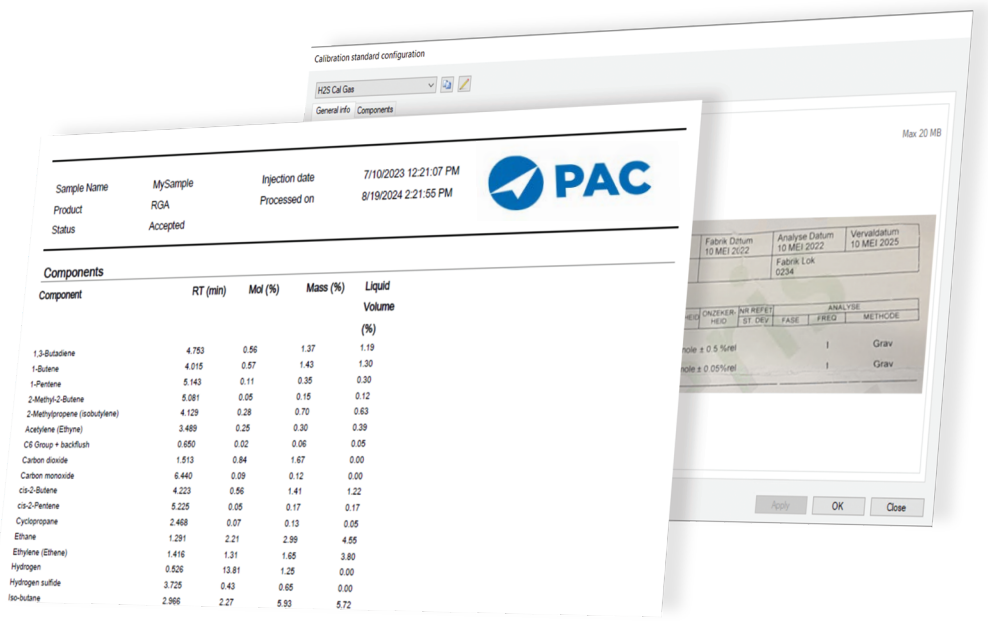

RELIABLE DATA MANAGEMENT

RGA/NGA XLNC keeps track of all calibrations performed. This traceability allows for any result to be reproduced or recalculated with revised calibration data. Sample analysis results are maintained similarly.

Calibration can be performed as single point or multilevel. The calibration browser validates the calibration analysis and can be used to view analyzed calibration sets. The screen displays calibration plot and the calibration analyses results used, allowing calibration results to be approved or removed. Approved results are blocked from further change. The Trend Analysis function (available with ISO 6974 Option) logs calibration/performance data over time, providing tools to the chemist for complying with any QC program.

TECHNICAL SPECIFICATIONS

Operating System Requirements: Windows 7/8, Windows 10, Windows 11

Hardware Requirements: GC independent

CDS Supported: OpenLab CDS, OpenLab Chemstation, and CDS's where .cdf output is available

Gas Calculation Methods and Properties	Units (*)	Temperature
ISO 6976 (1995, 2016)		
Compressibility (dry)		0 / 15 / 15.55 / 20 / 25 °C
Molar Mass	g/mol	
Inferior / Superior Calorific Value (mol)	kJ/mol	
Inferior / Superior Calorific Value (mass)	MJ/kg	
Inferior / Superior Calorific Value (vol) [Ideal / Real]	MJ/m3	0 / 15 / 15.55 / 20 / 25 °C
Density [Ideal / Real]	kg/m3	0 / 15 / 15.55 / 20 / 25 °C
Wobbe Index [Ideal / Real]	MJ/m3	0 / 15 / 15.55 / 20 / 25 °C
EN 15984 / DIN51666		
Carbon Content	g / 100 g	
Heating value (mol)	kJ/mol	15°C
Heating value (mass)	kJ/100g	15°C
GPA 2172		
GPM	Gal/1000ft3	15°C / 60 °F
Compressibility (dry / sat)		15°C / 60 °F
Gross Heating Value (dry / sat, dry air)	Btu/ft3	15°C / 60 °F
Real Gross Heating Value (dry / sat, dry air)	Btu/ft3	15°C / 60 °F
Nett Heating Value (dry / sat, dry air)	Btu/ft3	15°C / 60 °F
Real Nett Heating Value (dry / sat, dry air)	Btu/ft3	15°C / 60 °F
Relative Density (dry / sat gas) [ideal / real]		15°C / 60 °F
EN 589		
MON		
Vapor Pressure ()	kPa	-10 / -5 / 0 / 10 / 20 / 40 °C
Density acc ISO 8973	kg/m3	15°C
ISO 8973		
Vapor Pressure	kPa	37.8 / 40 / 50 / 70 °C
Desity	kg/m3	15°C
Miscellaneous		
Oxygen correction		
CO2 emision factor		
Schilling density	kg/m3	15°C
Custom calculations		

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ABOUT PAC

PAC is a leading global solution provider of advanced analytical instruments for laboratories and online process applications. Our solutions are from industry-leading brands: AC Analytical Controls, Advanced Sensors, Alcor, Antek, Cambridge Viscosity, Herzog, Icon Scientific, ISL, Phase Technology, and Uson.

We are committed to delivering quality and superior local customer service worldwide. With 13 office locations and a network of over 140 distributors, PAC operates as a unit of Indicor, LLC, a diversified technology company.

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