

Comprehensive library

Spirit^{IT} Flow-Xpert calculation software offers the most comprehensive and complete library on the market to date. The calculations have been verified by many of the world's leading metrology testing agencies, as well as end-user experts in our flow products.

	Basic mobile app	MS Excel windows PC
Calculations		
AGA3, AGA5, AGA8, AGA10, AGA-NX-19	✓	✓
GERG-2004, GERG-2008, SGERG	✓	✓
API 11.1 (Tables 5, 6, 23, 24, 53, 54, 59, 60), API 11.2, Historical API 1952 tables, API 11.3.2.1, API 11.3.3.2, API Table E NGL/LPG (TP27)	✓	✓
ASTM D1550 CTL, D1550 Rel. Density, ASTM D4311M, ASTM D1550, D3588, D411	✓	✓
GOST8-586	✓	✓
ISO-5167, ISO-6976	✓	✓
GPA-2172, GPA-TP15	✓	✓
IAPWS-IF97 steam and water tables	✓	✓
NIST-CO2, NIST-Ethylene Viscosity, NIST-1045 Ethylene	✓	✓
IUPAC Ethylene	✓	✓
VCone calculations	✓	✓
Features		
Comparison of methods (for example AGA8 versus GERG-2008)		✓
Integration of Flow-Xpert functions in custom Excel applications		✓
Densitometer calculations for Sarasota, Solartron, UGC	✓	✓
Pre- and user-defined gas compositions	✓	✓
Email and share calculation results	✓	
Graphical display of calculation results		✓
Interpolation functionality		✓
Unit conversion functionality	✓	✓

Contact

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ABB MEASUREMENT & ANALYTICS | LEAFLET

Spirit^{IT} Flow-Xpert

Flow calculations at your fingertips



Flow measurement calculations

Nowadays, a large number of flow measurement calculations is available, in metric and US customary measurement unit variations. Measurement engineers are often challenged to know which type of calculation would best suit their application. They may also need to check or validate a flow computer calculation for compliance.

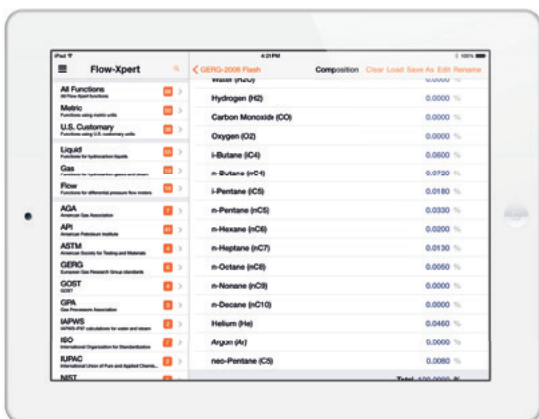
All too often, these check calculations are produced by engineers themselves, which can require significant development time and resources. Yet always the question remains: has the system been implemented correctly?

Solving the dilemma with Spirit^{IT} Flow-Xpert

Spirit^{IT} Flow-Xpert provides a comprehensive library of fluid flow calculations and thermodynamic property calculations for measurement engineers. Our regularly updated software includes a wealth of functionality, and is available in two editions: Spirit^{IT} Flow-Xpert Basic Edition (free of charge) and Spirit^{IT} Flow-Xpert Excel Edition. Both editions contain calculations for liquid, gas and steam, in full compliance with all relevant standards.

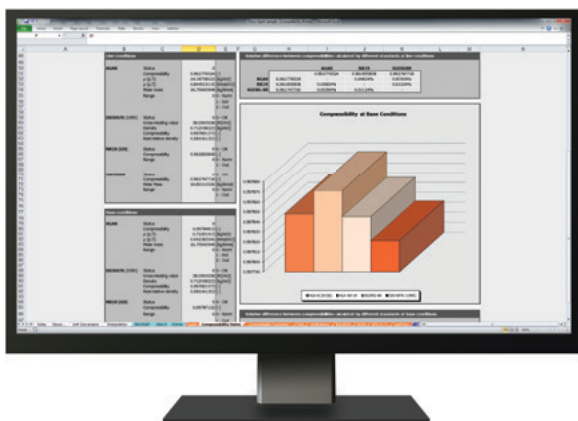
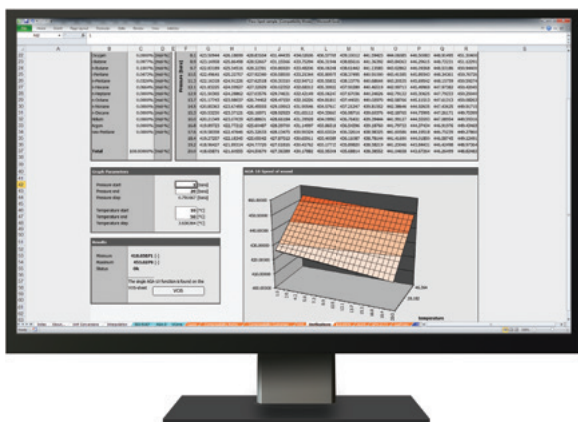


Basic edition



Spirit^{IT} Flow-Xpert Basic is a free-of-charge Flow and Fluid Property Calculation tool, available for smartphones and tablets (iOS and Android). This free version can be used to verify single calculations. The Spirit^{IT} Flow-Xpert App for mobile devices is available in the Apple AppStore and the Google PlayStore.

Excel edition



Spirit^{IT} Flow-Xpert Excel Edition is a MS Excel spreadsheet add-in that comes with a sample MS Excel workbook containing graphical user interface. All Spirit^{IT} Flow-Xpert calculation functions are available as MS Excel functions, which enables you to build customized applications, such as a flow computer verification tool and a meter ticket recalculation program.