

PRODUCT SPECIFICATIONS

Thermo Scientific AutoXP

Single run flow computer and smart multivariable transmitter

The Thermo Scientific™ AutoXP instrument is built on the field-proven AutoCONFIG platform. Designed for harsher environments across all oil and gas sectors.

Features

- Custody transfer compliant
- Bluetooth connectivity
- Through glass keypad interface
- Designed to meet Class 1 Div I requirements

The Thermo Scientific AutoXP has been designed to provide ultimate flexibility to our customers by providing a unit that can be used as a single-run flow computer or smart multi-variable transmitter. In addition this unit can be configured for both gas and liquid applications utilizing today's most common primary devices all while meeting Class 1 Div I requirements.

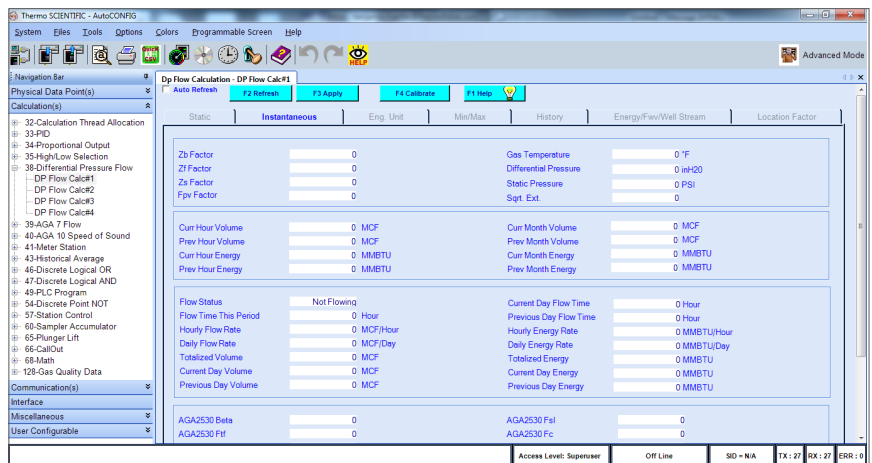


Thermo Scientific™ AutoXP



AutoCONFIG Configuration Software

Thermo Scientific flow computers are built on an innovative field proven platform incorporating the latest measurement standards and calculations for hydrocarbon measurement. AutoCONFIG interface allows for simplified configuration eliminating need for in-depth programming. Control functions include Station Control, PID, Alarming, Event based logging and many more.



Thermo Scientific™ AutoCONFIG built-in software

Thermo Scientific™ AutoXP

General specifications

Processor	32-bit
Program memory	4 MB of flash memory
Data storage memory	SRAM, 2 MB, battery-backed
CPU board communication port	1 RS232, 1 RS232/1 RS485, 1 10Base-T Ethernet port
Input power	10 VDC to 30 VDC
Historical data storage	User configurable, defaulting to 65 days of daily, 35 days of hourly per meter run
Audit trails	User configurable, defaulting to 200 audit events
Alarm log storage	User configurable, defaulting to 200 alarm events

Environmental specifications

Operating temperature	-40°C to +85°C (-40°F to +185°F)
Operating humidity	0-95% RH, non-condensing
Enclosure rating	NEMA 4X/IP67
Certifications	CSA/C-US Class I, Div 1, Groups B, C, D; ambient temperature range of -40°C to +85°C (-40°F to +185°F), temperature code T6 (-40°C to 75°C) T5 (-40°C to 85°C) EN 61326-1: 2013 (Industrial Criteria); FCC 47 CFR Part 15, Subpart B; ICES 003: 2016

Input/Display specifications

Keypad	4 IR through glass key input
Display	128x65 backlit LCD display; User programmable scroll list and menus

Natural gas calculations

Supercompressibility	(Fpv) AGA 8 Gross-1992; AGA 8 Detail-1992; AGA 8 Short-1988; NX-19; NX-19 Analysis; GERG
Differential meters	(DP, Orifice) AGA 3/ANSI/API 2530-1992 Method 2; AGA 3/ANSI/API 2530-1985; ISO 5167; Cone meters; Annubar; GOST
Linear meters	(Turbine) AGA 7; AGA 9; AGA 11
Energy	AGA 5; GPA 2172; ISO 6976
Diagnostic	AGA 10 SoS
Additional factors/equations	Fwv (manual, partial or full); Fws; Nist 14
Turbine meter linearization	10 Point Frequency/K-factor Table

Liquid calculations

API tables	Table A (generalized crude oils); Table B (generalized products); Table C (thermal expansion properties); Old Table (NGL, LPG SG range 0.425 to 0.650); Table 23/24 E (NGL, LPG); VCF (CH 11.1 2004); Propylene (CH 11.3.3.2); Ethylene (API 2565/CH 11.3.2.1); Ethylene (NBS 1045)
Volume correction factor (VCF)	Consistent with API 2540/ASTM D1250-80/IP 200; 5/6 A/B; 23/24 A/B; 53/54 A/B; 6/24/54 C; CH 11.1 2004; Note: natural gas liquids (NGL) and liquefied petroleum gases (LPG); OLD 23/24, OLD 53/54; Table E is new standard to replace OLD 23/24.
Correction for effect of pressure on liquid	Ch 11.2.1/Ch 11.2.2; Ch 11.2.1M/Ch 11.2.2M (compressibility factors for hydrocarbons), equilibrium pressure
Propylene density	API Ch 11.3.3.2
Ethylene density	API 2565 (Ch 11.3.2.1); Ethylene NBS 1045
Live density input	Thermo Scientific Sarasota liquid density meter, Solartron, UGC, 4-20 mA

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