PRODUCT SPECIFICATIONS

Thermo Scientific AutoPILOT PRO

One-to-six run flow computer for production

The advanced Thermo Scientific[™] AutoPILOT[™] PRO System is built on an innovative, field-proven technology platform. Applications include production optimization, wellhead control and tank monitoring.

Features

- Custody transfer compliant
- Built-in surge protection
- Designed for the field
- Liquid and gas calculations

The next-generation Thermo Scientific AutoPILOT PRO has been designed with the end user in mind by providing end users a suite of tools to manage operations from upstream to downstream. Flexible I/O options allow for selection of site specific requirements eliminating additional cost while still providing expansion options.

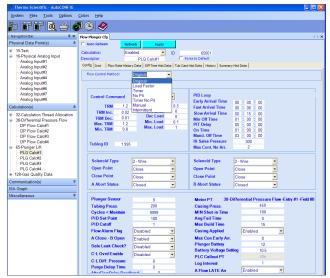


Thermo Scientific[™] AutoPILOT PRO



AutoCONFIG Configuration Software

Thermo Scientifiic 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 indepth programming. Control functions include Station Control, PID, Alarming, Event based logging and many more.



Thermo Scientific[™] AutoCONFIG built-in software.



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Thermo Scientific[™] AutoPILOT PRO EFM/RTU for Production

General specifications

General Specifications	
Processor Program memory Data storage memory CPU board communication port Input power Output power Historical data storage Audit trails Alarm log storage	32-bit, 60 MHz MCU 4 MB of flash memory SRAM, 2 MB, battery-backed 1 RS232, 1 RS232/RS485, 1 10Base-T Ethernet port, 1 USB slave port 10 VDC to 30 VDC 9 VDC/80 mA User configurable, defaulting to 65 days of daily, 35 days of hourly per meter run 200 audit events, 60 different types of audits 200 alarm events, 15 different types of alarms
Environmental specifications	s
Operating temperature Operating humidity Enclosure rating Certifications	-40°C to +85°C (-40°F to +185°F) 0-95% RH, non-condensing NEMA 4X/IP65 CSA/C-US Class I, Div 2, Groups C and D (provides intrinsically safe circuits to AutoMITTER PRO for use in Class I, Div 1, Groups C and D hazardous locations); ambient temperature range of -40°C to +85°C (-40°F to +185°F), temperature code T3C; type 4X enclosure CE – Electromagnetic compatibility (EMC); CE – II 3 G Ex nL nA IIB T4; -40°C to +85°C (-40°F to +185°F); FCC Compliant – FCC 47CFR Part 15, Class A; Measurement Canada – AG-0564C
Physical specifications	
Keypad Display	4×4 (16-key) input 4×16 character LCD; User programmable scroll list and menus
Natural gas calculations	
Supercompressibility Differential meters Linear meters Energy Diagnostic Additional factors/equations Turbine meter linearization	(Fpv) AGA 8 Gross-1992; AGA 8 Detail-1992; AGA 8 Short-1988; NX-19; NX-19 Analysis; GERG (DP, Orifice) AGA 3/ANSI/API 2530-1992 Method 2; AGA 3/ANSI/API 2530-1985; ISO 5167; Cone meters; Annubar; GOST (Turbine) AGA 7; AGA 9; AGA 11 AGA 5; GPA 2172; ISO 6976 AGA 10 SoS Fwv (manual, partial or full); Fws 10 Point Frequency/K-factor Table
Liquid calculations	
API tables Volume correction factor (VCF)	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) 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
Correction for effect of pressure on liquid Propylene density Ethylene density Live density input	 Note: Natural gas liquids (NGL) and liquelled perioreding ases (LPG). OLD 23/24, OLD 33/34, Table E is new standard to replace OLD 23/24. Ch 11.2.1/Ch 11.2.2; Ch 11.2.1M/Ch 11.2.2M (compressibility factors for hydrocarbons), equilibrium pressure API Ch 11.3.3.2 API 2565 (Ch 11.3.2.1); Ethylene NBS 1045 Thermo Scientific Sarasota liquid density meter, Solartron, UGC, 4-20 mA

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