



INDICATOR/
CONTROLLER



Flow Computer

Tek-FC 8000FX

1 FEATURES

- Application scalability
- Instrument health
- Avoid unnecessary downtime
- Provides Bluetooth connectivity
- Provides real time insight to end consumers for quick decision making
- Seamless integration
- Optional Remote web based monitoring application available
- Software to be supplied along with the unit in CD.

2 BENEFITS

- Custody Transfer
- Station Control
- Simplified Integration
- User Friendly Interface

3 CONTACT US

- 796 Tek Drive, Crystal Lake, IL 60014 USA
- +1 847-857-6076
- Email: tektrol@tek-trol.com
- www.tek-trol.com

4 SPECIFICATION

Design	Field Mount Multirun Flow Computer for Gas and Liquid
Standards	AGA-3 and AGA-7 with pressure & temperature compensated volume, AGA-8 for super compressibility factory including detailed, gross-1 and gorss-2 method
Input Type	Receives differential pressure, static pressure and temperature inputs from multiple meter runs from remote mounted MV sensors, in multi drop configuration, with expansion support for add on AI/AO, DI/DO and PI.
Input/Output	Two built-in 4-20 mA analog inputs (one of them field selectable for pulse input from turbine meter). Additional analogs inputs and outputs available as option for future expansion.
Control Functions	Closed loop PID control for each with Logic and sequencing control for run switching
Processor	792MHz 32 bit High Performance ultra low power ARM processor with Neon co-processor
Program memory	256MB
CPU board communication port	(2) Serial (2) Ethernet (1) USB
Input Power	10 VDC to 30 VDC
Historical data storage	User configurable; defaulting to 65 days of daily, 35 days of hourly
Audit Trails	User configurable; defaulting to 200 audit events, 60 different types of audits
Alarm log storage	User configurable; defaulting to 200 alarm events, 15 different types of alarms

Operating temperature	-40°C to +85°C (-40°F to +185°F)
Operating Humidity Range	0 to 95% RH, Non-condensing
Enclosure Rating	IP65 (NEMA 4X)
Certifications/Compliance	CSA/C-US Class I, Div 2, Groups C and D hazardous locations; ambient temperature range of -40°C to +85°C, temperature code T3Cl Type 4X enclosure)
Rack/Panel Mount Dimensions	7.18"W X 7.5"H X 6.9"D
Live Density Input	UGC, 4 to 20 mA
NEMA 4X Dimensions	15.27"W X 17.28"H X 8.15"D
Display	128 x 65 backlit LCD display; User programmable scroll list and menus
Natural Gas Calculations	<p>Super compressibility (Fpv) AGA 8 Gross-1992; AGA 8 Gross-2017; AGA 8-1992/2017; AGA 8 Short-1988; NX-19; NX-19 Analysis; GERG</p> <p>Differential meters (DP, Orifice) AGA 3/ANSI/API 2530-1992 Method 2; AGA 3/ANSI/API 2530-1985; ISO 5167; Cone meters; Annubar; GOST</p> <p>Linear meters (Turbine) AGA 7; AGA 9; AGA 11</p> <p>Energy AGA 5; GPA 2172; ISO 6976</p> <p>Diagnostic AGA 10 SoS</p> <p>Additional factors/equations Fwv (manual, partial or full); Fws</p> <p>Turbine meter linearization 10 Point Frequency/K-factor Table</p>
Liquid calculations	<p>API tables (Table A (generalized crude oils); Table B (generalized products); Table C (alpha 15/60 supplied); Table D (Lubricating Oils); Old Table (NGL, LPG SG range 0.425 to 0.650); Table 23/24 E, 53/54 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)</p> <p>Volume correction factor (VCF) Consistent with API 2540/ASTM D1250-80/IP 200; 5/6 A/B; 23/24 A/B/D; 53/54 A/B/D; 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.</p> <p>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), GPA TPI5 equilibrium pressure</p> <p>Propylene density API Ch 11.3.3.2</p> <p>Diagnostic AGA 10 SoS</p> <p>Ethylene density API 2565 (Ch 11.3.2.1); Ethylene NBS 1045; IUPAC</p> <p>Live density input Tektrol 's Sarasota liquid density meter, Solartron, UGC, 4-20 mA</p>