EVO™ 600 & EVO™ 6000 AUTOMATIC TANK GAUGES

EVO™ 600 & EVO™ 6000 automatic tank gauges (ATGs) provide highly accurate inventory management and full-featured compliance monitoring for any size fuel system. These module-based ATGs are highly configurable for site-specific probe and sensor requirements. Their simple setup and operation, remote connectivity, and advanced security features protect your fuel system while keeping you directly connected to vital site data whenever, and wherever. The highly-intuitive, full-color, icon-based touch screen provides user-friendly on-site access to inventory, alarm, and compliance data.

TECHNICAL ADVANTAGES

- Allows you to make informed, data-driven inventory management decisions while keeping your site in compliance and protected from security threats.

- Provides inventory monitoring, static (included feature) and continuous tank testing (optional feature), tank autocalibration, inventory reconciliation, containment compliance monitoring, and flow rate monitoring.

- With the EVO™ 600, six total modules can be installed with a maximum of four intrinsically safe modules and a maximum of three of any one kind of module. With the EVO™ 6000, eleven total modules can be installed with a maximum of nine intrinsically safe modules and a maximum of three of any one kind of module.

- Patented AutoLearn™ electronic line leak detection capability including Statistical Line Leak Detection for high throughput sites.

- Streamlined setup and programming includes hardware auto-detection and wiring confirmation, multipoint tank charting, network printer auto-detection, and the ability to download and upload entire programming profiles from one ATG to another.

- Intuitive full-color 17.78 cm touch screen interface provides simplified on-site access features including:

  - One Touch buttons that are custom programmed to carry out common automated tasks with a single tap.

  - Quick Jump menu allows you to quickly maneuver from application to application using a single button.

  - Programmable product colors.

- Available with optional 24 hour statistical continuous automatic leak detection (SCALD) and the industry's only turbine pump interface (TPI) capability for enhanced and automated submersible turbine pump control.

- Web interface allows you to directly connect to your ATG from any web enabled device.

- Compatible with the Multiplexing Sensor Hub (FMP-MSH).

- Compatible with Corrosion Control™ Water Separator.

SPECIFICATIONS

- Maximum tanks monitored: 36 (EVO™ 600) / 36 (EVO™ 6000)

- Maximum sensor input capacity: 48 (EVO™ 600)/96 (EVO™ 6000)

- Lines capacity: 24 (EVO™ 600)/24 (EVO™ 6000)

- Dry contact input channels: 2

- AC input channels: 36 (EVO™ 600)/36 (EVO™ 6000)

- Relay output channels: 26 (EVO™ 600)/50 (EVO™ 6000)

- Connectivity: Ethernet (qty 2), RS-485, standard USB, mini-USB

- Display type: 7" (17.78 cm) color LCD touch screen

- Printer type: thermal (also network or USB)

- Alarm: internal audible alarm

- LEDs: alarm, warning, and power

- Applicable liquids: petroleum, chemicals, and waste

- Level units: inches, centimeters, and millimeters

- Volume units: gallons or liters (mass with density option)

- Power requirements: 110 to 240 VAC, 50/60 hz, 1.5 Amps

- Operating temperature: 32° to 104 °F (0° to 40 °C)

- Humidity: 0-90% non-condensing

- EVO™ 600: H: 11.75"(300 mm), W: 10¼"(260 mm), D: 9"(229 mm)

- EVO™ 6000: H: 11.75"(300 mm), W: 16½"(419 mm), D: 9"(229 mm)

Capabilities

- High/low product, water, and temperature alarm set points

- Inventory reconciliation/tank autocalibration/flow rate monitoring

- Density, mass, and phase separation measurement

- Email and SMS notifications

- Back-up generator monitoring/conditions programming

- Advanced logic control for DEF/AdBlue® recirculation system
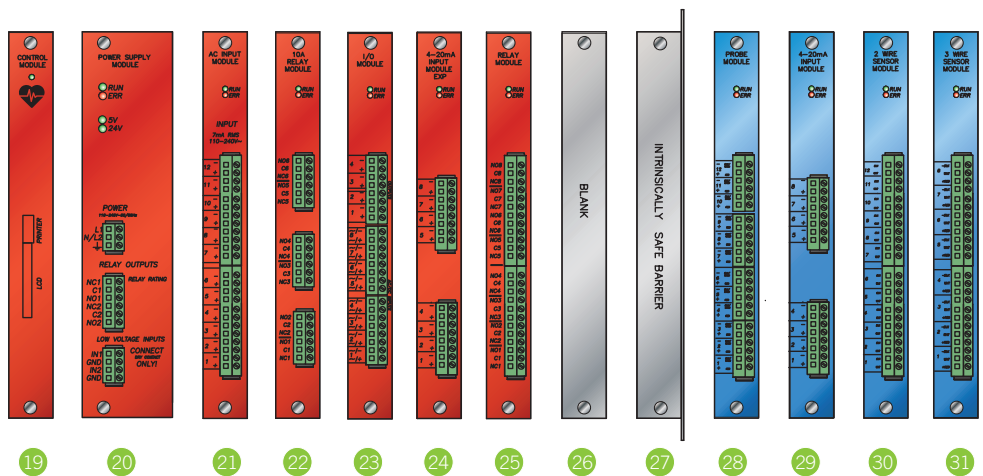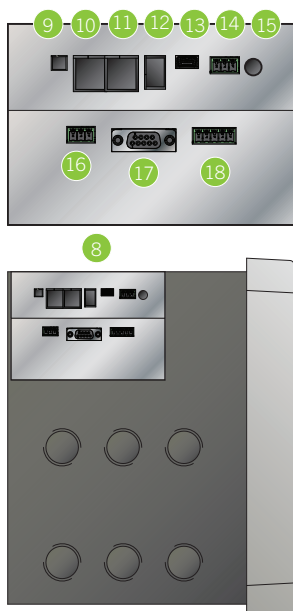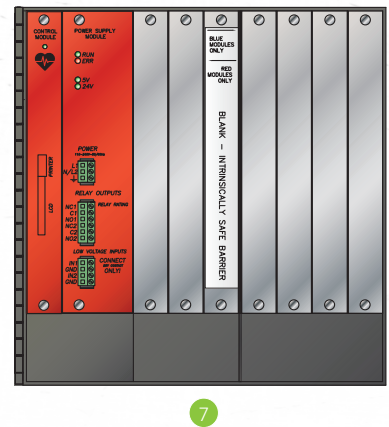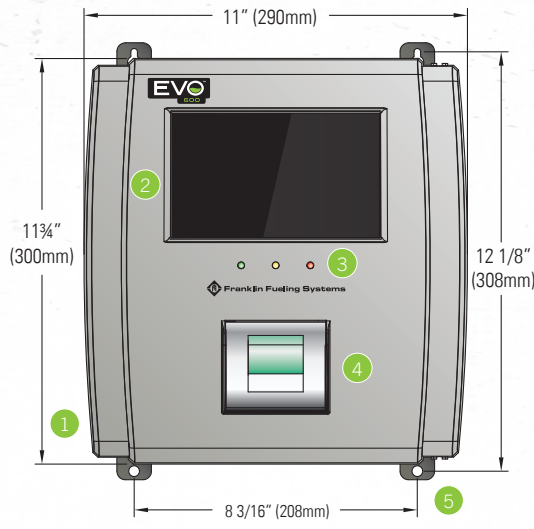
- MODBUS™ support

Approvals/Certifications

- UL, cUL, ATEX, IECEx

- Third party certification of leak detection capabilities

SPECIFICATIONS CONTINUED

Components

1. Cover
2. LCD touch screen
3. LED indicators
4. Printer
5. Mounting tabs
6. Cooling vents
7. Module slots
8. Communication ports
9. Annunciator (audible alarm)
10. Ethernet port
11. Ethernet port
12. USB port (Type-A)
13. USB port (Mini)
14. Ground comm port
15. Wi-Fi
16. Bus extension
17. Serial comm port 2
18. RS-485 comm port
19. Controller module
20. Power supply module
21. AC input module
22. 10 Amp relay module
23. I/O module
24. 4-20mA module EXP
25. Relay module
26. Blank
27. Intrinsically safe barrier
28. Probe module
29. 4-20mA module
30. 2 wire sensor module
31. 3 wire sensor module

- There can only be three types of one module in an EVO™ Series ATG.
- If you require more than three types of one module, please contact your FFS sales representative to review your needs.
- The intrinsically safe barrier must be installed in the third slot or greater. (The third slot after the power supply module.)

ORDERING INFORMATION

Ordering Guide

ATG model, software and hardware options can be listed separately or combined when ordering. Systems shipped from the factory will list the combined part number. Complete part numbers have a specific order and are created using the following guidelines:

TX DPWIE / TRFLGC

TX = Base Model Options

EVO600 = EVO™ 600 base ATG

EVO6000 = EVO™ 6000 base ATG

DPWIE = Hardware Options (choose all that apply)*

D = Display

P = Printer

W = Wifi

I = Dispenser interface module

E = LON module

TRFLGC = Software Options (choose all that apply)

T = SCALD 24-hour tank testing

R or F = (R) Reconciliation/autocalibration or

(F) Reconciliation/autocalibration with flow rate monitoring

L or G = (L) Line leak detection or

(G) Generator line leak detection

C = DEF/AdBlue® recirculation, enhanced logic conditions including value, counter, value compare, and latch

*Only one EVO™-DIM or EVO™-LON module can be installed per ATG.

Example: EVO600DPWI/TRL = EVO™ 600 base model with display, with printer, with Wifi, with dispenser interface module, with SCALD, with reconciliation/ autocalibration, and line leak detection.

EVO™ 600 & EVO™ 6000 Base Models

Model	Description
EVO600	EVO™ 600 base model automatic tank gauge
EVO6000	EVO™ 6000 base model automatic tank gauge

EVO™ 600 & EVO™ 6000 Hardware & Software Options

EVO™ 600 and EVO™ 6000 ATGs come standard with the ability to perform in-tank static leak detection. The following software and hardware options can be added to customize your ATG. The internal hardware options will be factory installed when ordered with the ATG.

Internal Hardware Options

Model	Description
FMP-WIFI	(W) EVO Wifi Upgrade
EVO-DIMIB	(I) Internal dispenser interface module, dispenser interface cable must be ordered separately
EVO-LON	(E) Lon™ communication module, IFSF protocol capability

Note: Only one EVO™-DIM or EVO™-LON module can be installed per ATG.

Internal Software Options / Field Upgrades

Model	Description
TS-TT	(T) Statistical continuous automatic leak detection, 24 hour continuous tank testing software
TS-TRAC	(R) Tank inventory reconciliation and autocalibration
TS-TRAC-F	(F) Reconciliation/autocalibration and flow rate monitoring software
TS-FLOW	Flow rate monitoring software (Field upgrade for ATGs with reconciliation/autocalibration)
TS-ELLD	(L) Electronic line leak detection
TS-ELLD-G	(G) Electronic line leak detection for generator applications
TS-CON	(C) Enhanced logic conditions including value, counter, value compare, and latch

Expansion Consoles

Model	Description
EVO-EXPC2	Secondary console to add six additional plug-in modules to the primary EVO™ 600 or EVO™ 6000 ATG, comes without a display or printer
EVO-EXPC	Secondary console to add eleven additional plug-in modules to the primary EVO™ 600 or EVO™ 6000 ATG, comes without a display or printer

Note: The expansion consoles can also be used with the EVO™ 550 and EVO™ 5000.