Franklin Electric
FUELING SYSTEMS

EVO™ 200 & EVO™ 400 SERIES

EVO™ 200 & EVO™ 400 provide highly accurate inventory management and containment monitoring for small to mid-size fuel systems. With pre-configured hardware and customizable software options, the EVO™ 200 & EVO™ 400 provide straightforward tank level monitoring and compliance. 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.

HIGHLIGHTS

- Included Features: Inventory monitoring, Turbine Pump Interface (TPI) capability for enhanced and automated submersible turbine pump control, static tank testing, and containment compliance monitoring.

- Optional Features: 24-hour Statistical Continuous Automatic Leak Detection (SCALD®), tank autocalibration, inventory reconciliation, and flow rate monitoring.

- Both the EVO™ 200 & EVO™ 400 feature the capability to interface with probes and sensors in any combination up to 6 (EVO™ 200) or 14 (EVO™ 400).

- Customizable user roles and log-in security features protect against unwanted access while keeping track of user activity within your system.

- 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 to another.

- Intuitive full-color 7" (17.78 cm) LCD touch screen interface provides simplified on-site access features including:

  - Up to Six (6) One Touch Buttons that are custom programmed to carry out common automated tasks with a single tap.

  - A Quick Jump Menu that allows you to quickly maneuver from application to application using a single button.

  - Programmable product colors for each tank.

- FFS PRO® Connect allows you to remotely connect to your EVO™ from any web-enabled device.

- Optional WiFi allows secure and protected on-site viewing of inventory levels for fuel delivery drivers.

- Supports MQTT protocol, the standard for IoT messaging, for enhanced security of data transmission.

DO MORE WITH EVO™

Leverage the power of an EVO™ to help operate and maintain your fuel system and network operations as efficiently as possible.

TURBINE PUMP INTERFACE

INVENTORY RECONCILIATION

TANK AUTOCALIBRATION

FLOW RATE MONITORING

SPECIFICATIONS

Maximum tanks monitored	6 (EVO™ 200)/14 (EVO™ 400)
Maximum sensor input capacity	6 (EVO™ 200)/14 (EVO™ 400)
Lines capacity	6 (EVO™ 200)/14 (EVO™ 400)
Dry contact input channels	2
Relay output channels	2
Connectivity	Ethernet, RS-232, RS-485, standard USB, Mini-B USB, and WiFi (optional)
Display type	7" (17.78 cm) color LCD touch screen
Printer type	External (network or USB)
Alarm	Internal audible alarm
LEDs	Alarm, warning, and power
Tank chart correction points	7,500
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, 2.6 Amps
Operating temperature	32° to 104° F (0° to 40° C)
Humidity	0-95% non-condensing
Dimensions	H: 8" (205 mm), W:13 ¾" (350 mm),D: 3¼" (83 mm)
Alarm set points	High/low product, water, and temperature
Technical Advantages	Inventory reconciliation/tank autocalibration/flow rate monitoring (optional)
Measurements	Density, mass, and phase separation measurement
Notifications	Email and SMS
Programming	Conditions
Monitoring	Back-up generator
Support	MODBUS™
Approvals	UL, cUL, ATEX, IECEx, GSA IT Security
Certifications	– Third party certification of leak detection capabilities – Third party verified "MATURE" security posture level

SPECIFICATIONS CONTINUED

Components

1. Cover
2. LCD Touch Screen
3. LED Indicators
4. Annunciator (audible alarm)
5. RS-485 / TPI
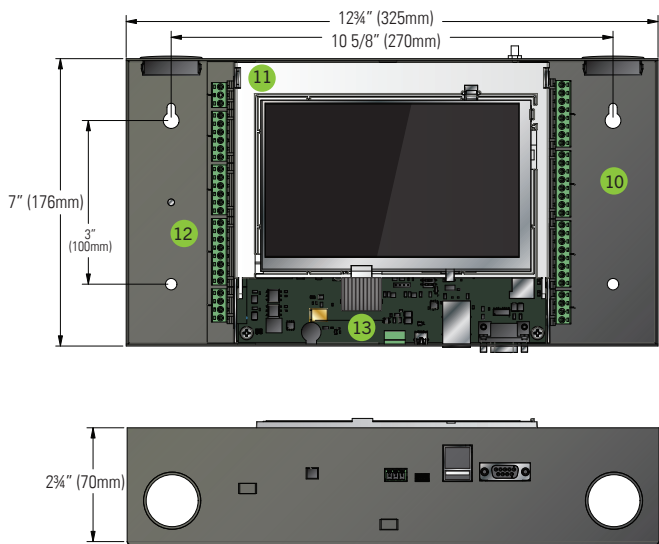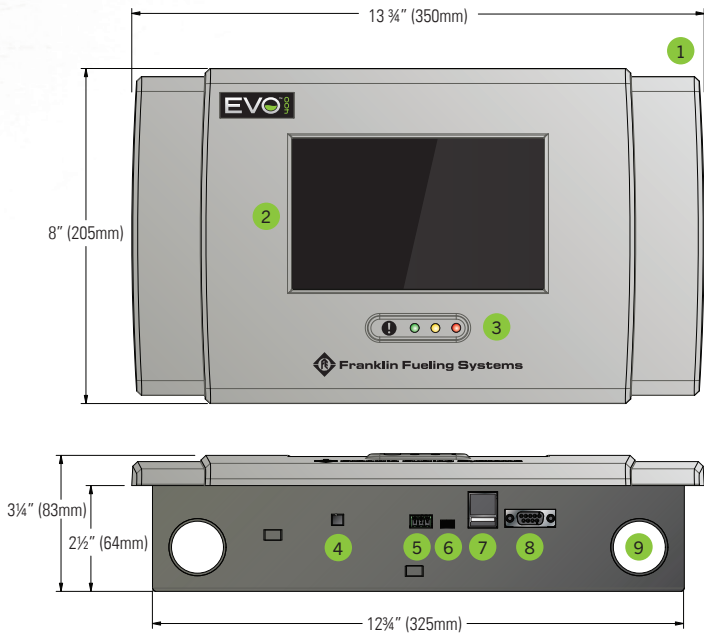6. Mini-B USB Port
7. Ethernet / USB Port
8. RS-232
9. Top and Bottom Knockouts
10. Mounting Holes
11. Flip Up Panel (Touch Screen)
12. Termination Blocks
13. Main Board

ORDERING INFORMATION

Ordering Guide

EVO™ model, software, and hardware options may 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:

EVOX DW - TRFC

EVOX = Base Model Options

EVO200 = EVO™ 200 base model, up to 6 channels

EVO400 = EVO™ 400 base model, up to 14 channels

DW = Hardware Options (choose all that apply)

D = Display (color LCD touch screen)

W = WiFi

TRFC = Software Options (choose all that apply)

T = SCALD® 24-hour tank testing

R or F (R) = Reconciliation/Autocalibration

(F) = Reconciliation/Autocalibration with Flow Rate Monitoring

C = Enhanced logic conditions including value, counter, value compare, and latch

Example: EVO400DW-TR = EVO™ 400 base model, up to 14 channels with display, WiFi, SCALD®, and Reconciliation/Autocalibration.

EVO™ 200 & EVO™ 400 External Printer

Model	Description
FMP-ETP	External thermal printer, includes USB cable, power cord, one roll of thermal printer paper, and wall mount hardware
FMP-EPPC	Case of 25 thermal printer paper rolls

Note: The external printer measures 5.6" w x 5.2" h x 8.0" d (142 mm x 132 mm x 204 mm) and can be mounted to wall next to the EVO™ using the included hardware.

ORDERING INFORMATION CONTINUED

EVO™ 200 & EVO™ 400 Hardware & Software Field Upgrades

The following software and hardware options can be added to customize your EVO™ once it's been installed in the field.

Internal Software Field Upgrades

Model	Description
TS-TT	Statistical Continuous Automatic Leak Detection (SCALD®) 24-hour tank testing
TS-TRAC	Tank inventory reconciliation and autocalibration
TS-TRAC-F	Reconciliation/autocalibration and flow rate monitoring software
TS-FLOW	Flow rate monitoring
TS-CON	Enhanced logic conditions including value, counter, value compare, latch, and DEF/AdBlue® recirculation

Hardware Field Upgrades

Model	Description
FMP-LCD	Display upgrade for an existing EVO™ 200 / EVO™ 400
FMP-WIFI	WiFi upgrade for an existing EVO™ 200, EVO™ 400, EVO™ 600, or EVO™ 6000, includes 4.5" antenna
FMP-ETP	External thermal printer, includes USB cable, power cord, one roll of thermal printer paper, and wall mount hardware

Note: The external printer measures 5.6" w x 5.2" h x 8.0" d (142 mm x 132 mm x 204 mm) and can be mounted to wall next to the EVO™ using the included hardware.

EVO™ 200 and EVO™ 400 Spare/Replacement Parts

Spare/Replacement Internal Boards

Model	Description
FMSP-24MB	Spare/Replacement EVO™ 200 and EVO™ 400 Main Board
FMSP-SOM	Spare/Replacement SOM, standard features only, no software options
FMSP-SOM-R	Replacement SOM, factory programmed with existing software options
FMSP-UDP200	Spare/Replacement EVO™ 200 Input PCB
FMSP-UDP400	Spare/Replacement EVO™ 400 Input PCB

Note: The serial number of the existing EVO™ must be provided when ordering the FMSP-SOM-R.

Spare/Replacement Hardware

Model	Description
FMSP-LCD	Spare/Replacement LCD Display for an EVO™ 200 / EVO™ 400
FMP-WIFI	Replacement WiFi hardware for an existing EVO™ 200, EVO™ 400, EVO™ 600, or EVO™ 6000, includes 4.5" antenna
FMP-24FUSE	EVO™ 200 and EVO™ 400 replacement fuse kit
24TRMBLK	EVO™ 200 and EVO™ 400 replacement terminal blocks
FMSP-24CVR	EVO™ 200 and EVO™ 400 without LCD replacement cover
FMSP-24CVRWD	EVO™ 200 and EVO™ 400 with LCD replacement cover

Printer Paper Supplies

Model	Description
FMP-EPPC	Case of 25 thermal external printer paper rolls
228100002	Ribbon Cable - Display to Main Board