Franklin Electric
FUELING SYSTEMS

EVO™ ONE

EVO™ ONE is an economical, turnkey fuel monitoring solution designed for complete system management. The bundle includes probes, plus a kit of console sensors, and all necessary installation hardware. EVO™ ONE provides inventory management, compliance monitoring, and leak detection with advanced automation and remote access. Designed for easy installation and long-term reliability, EVO™ ONE delivers a fully integrated system at a cost-effective price, with the security that you've come to expect from the EVO™ Series.

HIGHLIGHTS

Feature & Benefits

Full monitoring system at the cost of just a console

Highly accurate, real-time fuel inventory monitoring

Automated compliance monitoring, testing, and reporting

Continuous electronic line leak detection (optional)

Advanced pump monitoring and control

Pre-configure software tool for fast, hassle-free setup

Anywhere, anytime access via PRO® Connect

Includes all install hardware for turnkey installation

Custom security levels, user tracking, & multifactor log-in

Latest TLS/SSL protocols for secure data encryption

Capabilities

- Inventory monitoring
- Inventory reconciliation
- Tank autocalibration
- Static tank testing
- Statistical Continuous Automatic Leak Detection (SCALD®)
- Turbine Pump Interface™ (TPI)
- Containment compliance monitoring
- Electronic Line Leak Detection (ELLD)*
- AUTO-LEARN® ELLD line learning*
- Statistical Line Leak Detection (SLLD)*
- Programmable logic conditions (custom applications)
- Dual-sensor (FMP-ULS) connectivity in parallel per input
- Remote access via PRO® Connect

**Optional capability*

EVO™ ONE SYSTEM

EVO™ ONE is the all-in-one fuel system monitoring solution that lets station owners install or upgrade an entire fuel management system for the price of a single console.

EVO™ ONE CONSOLE

INVENTORY PROBES & HARDWARE

LIQUID SENSORS

LEAK DETECTION
(Optional)

REMOTE ACCESS

HIGHLIGHTS CONTINUED

Inventory Monitoring

Provides real-time tracking of fuel levels within storage tanks. This enables station owners to manage inventory effectively, reducing the risk of runouts or overfilling.

Inventory Reconciliation*

Compares dispensed fuel amounts with actual inventory levels to identify discrepancies. This helps detect potential leaks or theft, ensuring product accountability and environmental compliance.

Tank Autocalibration*

Automatically adjusts tank capacity measurements to reflect actual conditions. This enhances measurement accuracy, leading to more precise inventory management and compliance reporting.

Static Tank Testing*

Conducts scheduled, non-intrusive tests to verify tank integrity. Station owners benefit by ensuring regulatory compliance and preventing environmental contamination.

Statistical Continuous Automatic Leak Detection (SCALD®)*

SCALD® continuously analyzes data to detect tank leaks without requiring shutdowns or interrupting fueling. Ideal for 24/7 sites with minimal quiet periods, it ensures compliance without disrupting operations.

Containment Compliance Monitoring

Monitors containment sumps and tank interstitial for leaks. This ensures early detection of containment failures, protecting the environment and aiding in regulatory compliance.

Programmable Logic Conditions (Custom Applications)

Enables customization of system responses based on specific site conditions. This flexibility allows station owners to automate processes, enhancing operational efficiency.

Electronic Line Leak Detection (ELLD) *(Optional)*

Utilizes electronic sensors mounted in the submersible pump to detect leaks in fuel lines. Early detection prevents product loss and environmental hazards, ensuring system integrity.

AUTO-LEARN® ELLD Line Learning *(Optional)*

Automatically learns the characteristics of fuel lines to enhance leak detection accuracy. This ensures precise, customized leak detection, reducing the risk of false alarms and enhancing overall system accuracy.

Statistical Line Leak Detection (SLLD) *(Optional)*

Analyzes pressure and flow data over time to identify leaks. This allows sites with constant fuel flow to perform 0.2 gph leak testing, even during peak operation, which ensures continuous compliance without disrupting operations.

Dual-Sensor Connectivity in Parallel per Input

Allows two FMP-ULS sensors to connect to a single input channel in parallel. This expands monitoring capabilities without additional hardware, optimizing system resources.

Remote Access via PRO® Connect

Provides off-site access to system data and controls through a secure web interface. Station owners can monitor and manage their sites remotely, improving response times and operational oversight.

Turbine Pump Interface™ (TPI)

Creates a network between intelligent pump controllers and EVO™ ONE allowing real-time data sharing and intelligent system responses. This enables remote troubleshooting and reduced downtime features like:

Pump in Water Automation
Detect water in tanks and automatically shut off the affected pump, preventing water from being pumped into a customer's vehicle.

Clogged Pump Escalation
Detect, verify, and automate the resetting of a pump to clear clogs and bring them back online faster without a service call.

Tank Leveling & Priority
Balance the levels of multiple tanks with the same fuel type or prioritize one tank for faster, more efficient fuel deliveries.

**Requires the purchase/use of leak detection probes.*

SPECIFICATIONS

Inputs & Connectivity

Universal Device Protocol inputs	14
Maximum tanks monitored	14
Maximum sensor input capacity	14, 28*
Lines capacity	4
Maximum total device inputs	14, 28*
Maximum AC input channels	4
Dry contact input channels	2
Relay output channels	4
Connectivity	Ethernet, RS-232, RS-485, standard USB, Mini-B USB
Communication protocol support	MQTT, MODBUS®, XML, Veeder-Root®

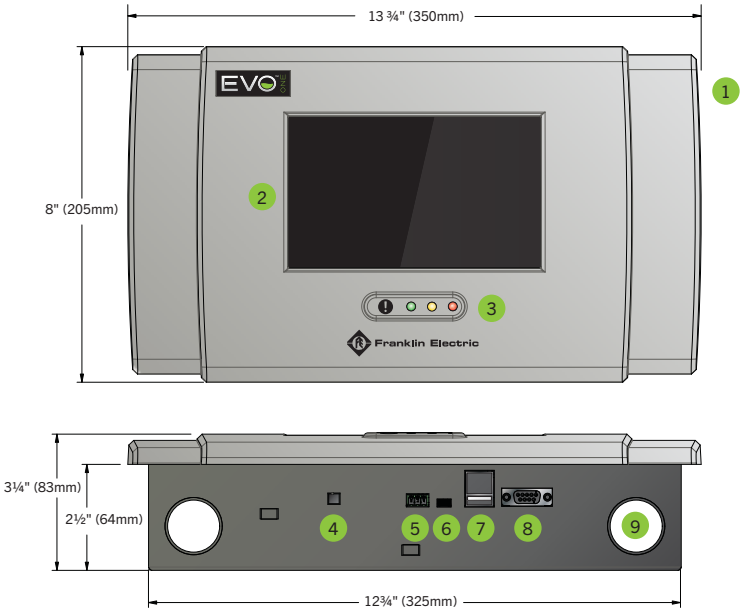
**Requires connecting two FMP-ULS sensors per channel.*

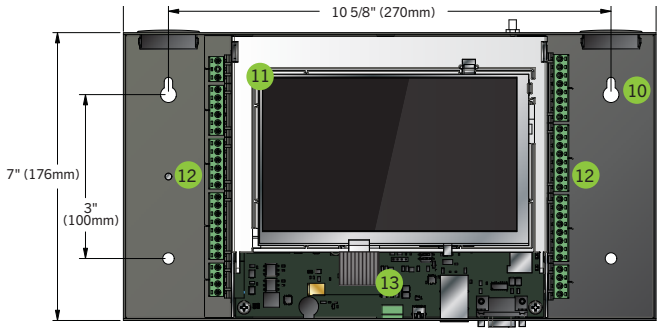
Hardware

Dimensions	H: 8" (205 mm), W:13 ¾" (350 mm),D: 3¼" (83 mm)
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
Applicable liquids	Petroleum, chemicals, and waste
Power requirements	110 to 240 VAC, 50/60 Hz, 1.0 Amp
Operating temperature	32° to 104° F (0° to 40° C)
Storage temperature	-4° to 104° F (-20° to 40° C)
Humidity	0-95% non-condensing
Approvals	UL, cUL, ATEX, IECEx, GSA IT Security
Certifications	Third party certification of leak detection capabilities
Security	- Customizable user roles - User activity tracking - Multifactor authentication - Third party verified security - GSA IT security approval - Latest SSL/TLS protocols

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

EVO ONE™ Ordering Guide

EVO™ ONE Kits must be bundled with probes as a separate line item. Probes are purchased separately from the kit to allow for varying tank diameters / probe lengths.

Step 1 - Select EVO™ ONE Kit: Select the appropriate EVO™ ONE Kit based on site size and requirements.

EVO™ ONE Kits

Model	Description
EVO1-X0-S12-C2-G2D0	EVO™ ONE Kit for up to **2 tanks**, up to **8 dispensers** Includes: (1) EVO™ ONE console (12) Universal Liquid Sensors (2) Probe Install Kits (2) 4" Gas Float Kits
EVO1-X2-S12-C2-G2D0	EVO™ ONE Kit for up to **2 tanks**, up to **8 dispensers**, with **line leak detection** Includes: (1) EVO™ ONE console (1) Line Leak Detection Kit with (2) Pressure Transducers (12) Universal Liquid Sensors (2) Probe Install Kits (2) 4" Gas Float Kits
EVO1-X0-S14-C3-G2D1	EVO™ ONE Kit for up to **3 tanks**, up to **8 dispensers** Includes: (1) EVO™ ONE console (14) Universal Liquid Sensors (3) Probe Install Kits (2) 4" Gas Float Kits (1) 4" Diesel Float Kit
EVO1-X3-S14-C3-G2D1	EVO™ ONE Kit for up to **3 tanks**, up to **8 dispensers**, with **line leak detection** Includes: (1) EVO™ ONE console (1) Line Leak Detection Kit with (3) Pressure Transducers (14) Universal Liquid Sensors (3) Probe Install Kits (2) 4" Gas Float Kits (1) 4" Diesel Float Kit

Step 2 - Select Probes: Select the appropriate Probes based on tank diameters.*

Probes With Leak Detection / **Inventory Only Probes**

Model	Description	Model	Description
FMP-LL3-29	2' digital leak detection probe	FMP-LL3-29-I	2' digital inventory control probe
FMP-LL3-41	3' digital leak detection probe	FMP-LL3-41-I	3' digital inventory control probe
FMP-LL3-53	4' digital leak detection probe	FMP-LL3-53-I	4' digital inventory control probe
FMP-LL3-65	5' digital leak detection probe	FMP-LL3-65-I	5' digital inventory control probe
FMP-LL3-69	5'4" digital leak detection probe	FMP-LL3-69-I	5'4" digital inventory control probe
FMP-LL3-77	6' digital leak detection probe	FMP-LL3-77-I	6' digital inventory control probe
FMP-LL3-81	6'4" digital leak detection probe	FMP-LL3-81-I	6'4" digital inventory control probe
FMP-LL3-89	7' digital leak detection probe	FMP-LL3-89-I	7' digital inventory control probe
FMP-LL3-101	8' digital leak detection probe	FMP-LL3-101-I	8' digital inventory control probe
FMP-LL3-113	9' digital leak detection probe	FMP-LL3-113-I	9' digital inventory control probe
FMP-LL3-125	10' digital leak detection probe	FMP-LL3-125-I	10' digital inventory control probe
FMP-LL3-131	10'6" digital leak detection probe	FMP-LL3-131-I	10'6" digital inventory control probe
FMP-LL3-137	11' digital leak detection probe	FMP-LL3-137-I	11' digital inventory control probe
FMP-LL3-149	12' digital leak detection probe	FMP-LL3-149-I	12' digital inventory control probe

**Probes are purchased separately from the EVO™ ONE kit to complete the system bundle.*

ORDERING INFORMATION CONTINUED

EVO™ ONE Hardware & Software Field Upgrades

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

Internal Software Field Upgrades

Model	Description
TS-FLOW	Flow rate monitoring
TS-CON	Enhanced logic conditions including value, counter, value compare, and latch

Hardware Field Upgrades

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 external 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™ ONE using the included hardware.

EVO™ ONE Spare/Replacement Parts

Spare/Replacement Internal Boards

Model	Description
FMSP-UDP400	Spare/Replacement EVO™ 200/400 / EVO™ ONE Input PCB

Spare/Replacement Hardware

Model	Description
FMSP-LCD	Spare/Replacement LCD Display for an EVO™ 200/400 / EVO™ ONE
FMP-24FUSE	EVO™ 200/400 / EVO™ ONE replacement fuse kit
FMP-24TRMBLK	EVO™ 200/400 / EVO™ ONE replacement terminal blocks
FMSP-24CVRWD	EVO™ 200/400 / EVO™ ONE with LCD replacement cover
FMSP-24CBL1	Ribbon Cable - Display to Main Board

Additional Compatible Devices

Model	Description
FMP-ULS	Universal liquid sump sensor (all EVO™ Series)
FMP-UHS	Universal hydrostatic sensor (all EVO™ Series)
FMP-DDS-UD	Discriminating dispenser sump sensor with simple apparatus connection (EVO™ 200/400 and EVO™ ONE , EVO™ 600/6000)
FMP-DTS-U	Discriminating turbine sump sensor (EVO™ 200/400 and EVO™ ONE , EVO™ 600/6000)
FMP-EIS-U	Electro-optic interstitial sensor (EVO™ 200/400 and EVO™ ONE , EVO™ 600/6000)
FMP-DIS-U	Discriminating interstitial sensor (EVO™ 200/400 & EVO™ ONE, EVO™ 600/6000)
FMP-HIS-U	Hydrostatic interstitial sensor, 11" (EVO™ 200 / 400 and EVO™ ONE , EVO™ 600/6000)
FMP-HIS-XL-U	Hydrostatic interstitial sensor, 21" (EVO™ 200 / 400 and EVO™ ONE , EVO™ 600/6000)
FMP-CDS-U	Corrosion Detection Sensor (EVO™ 200/400 and EVO™ ONE , EVO™ 600/6000)
FMP-DPS-U	Desiccant Pack Sensor with single and multi-pack hanger and installation kit
TSP-DMS-12	Discriminating magnetostrictive sensor, monitors 12" (305 mm) of liquid & measures 22" (559 mm) in length (all EVO™ Series)
TSP-DMS-24	Discriminating magnetostrictive sensor, monitors 24" (610 mm) of liquid & measures 34" (864 mm) in length (all EVO™ Series)
FMP-LSU500-U	Replacement pressure transducer - UDP protocol
TS-RA1	Standard intensity, tank overfill alarm with light and horn
TS-RA2	High intensity, tank overfill alarm with light and horn
TS-RK	Remote tank overfill alarm acknowledge unit

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