

# SECONDARY CONTAINMENT MONITORING

The secondary containment monitoring (SCM) system is designed to detect leaks in double-wall piping, tanks, and sumps. The system utilizes the siphon/vacuum port of a submersible turbine pump to draw a vacuum on these interstitial spaces. The vacuum levels are then continuously monitored to detect any potential leaks in these double-wall containments.

## HIGHLIGHTS

- Up to four different containments can be connected to each submersible turbine pump using a combination of single and dual channel TS-SCCM secondary containment control modules and secondary syphon ports.
- The secondary containment control module collects information on all interstitial spaces.
- Gathers system status, replenish rate, alarm, and diagnostic information.
- Utilizes AUTO-LEARN® technology to learn the actual interstitial space being monitored based on the vacuum flow rate through a calibrated orifice for precise leak detection.
- Alarms when vacuum cannot be maintained or when liquid is detected in secondary space.
- Optional positive submersible turbine pump shut-down upon alarm.
- Compatible with FE PETRO® brand submersible turbine pumps as well as Red Jacket® STPs.
- All components necessary for installation including syphon check valve, vacuum hose, fittings and other installation accessories are available from Franklin Fueling systems.

*Note: Product only compatible with EVO™ 550, EVO™ 5000, EVO™ 600, and EVO™ 6000.*



## SPECIFICATIONS

- Operating vacuum level: -2 to -6 inHg
- Available software option on EVO™ 550, EVO™ 5000, EVO™ 600, and EVO™ 6000.
- TS-420IB, TS-RLY and TS-ACI modules and the TS-SCM software option must be ordered and installed in the tank gauge ATG.
- Requires TS-SCCM secondary containment control module consisting of pressure sensor(s) and solenoid valve(s).
- Requires syphon check valve to connect to STP manifold.
- Containments to be monitored must terminate inside the submersible turbine pump containment.
- Installer must verify the vacuum limitation of each containment with its manufacturer prior to installation.

## Approvals/Certifications

- Meets all requirements of California AB2481.
- National Work Group approved.

## Operation

Secondary containment monitoring uses the siphon port of the submersible turbine pump to draw and maintain a vacuum on the secondary containments of lines, sumps, tanks and vapor lines. During installation a calibrated leak is introduced during the AUTO-LEARN® process which allows the system to learn the vacuum characteristics of each containment space. The vacuum level is continuously monitored and compared to established leak rates to ensure that the secondary containment is tight.

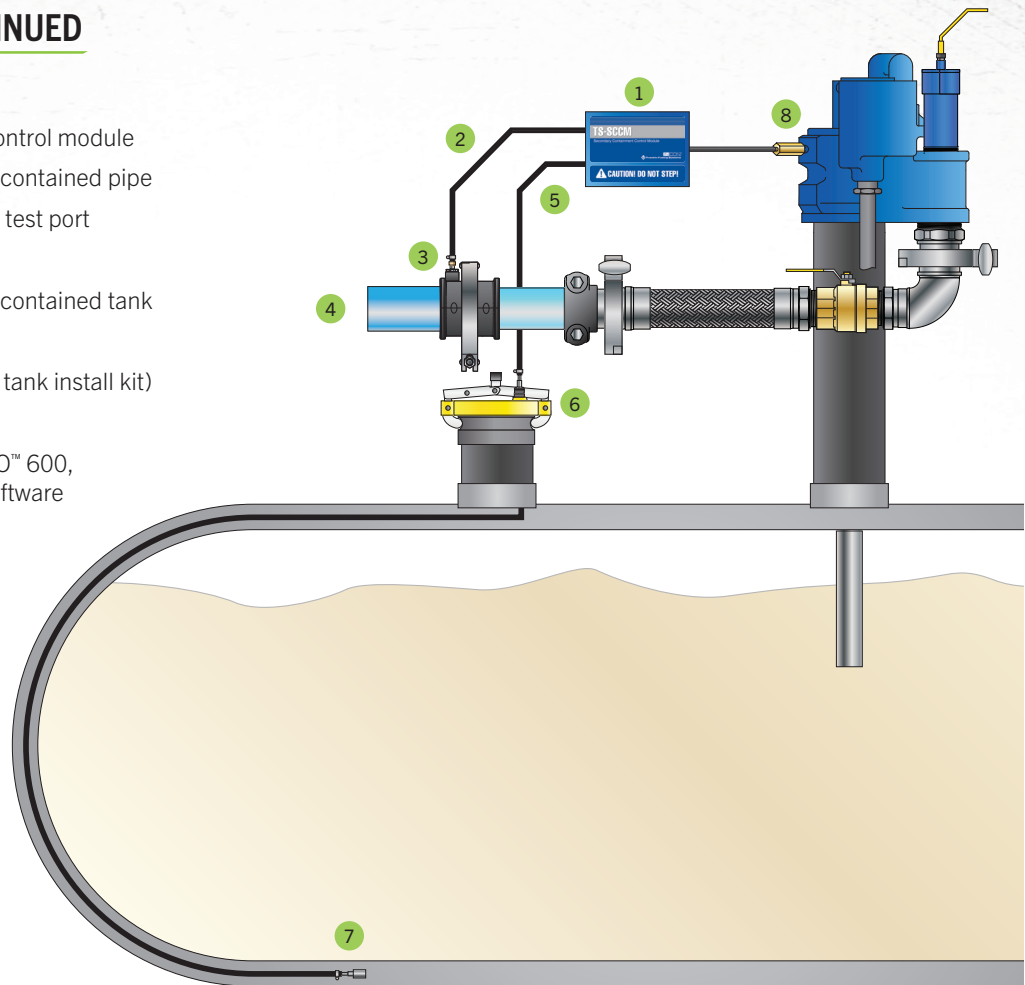
## SPECIFICATIONS CONTINUED

### Components

- 1 Secondary containment control module
- 2 Vacuum line to secondary contained pipe
- 3 Pipe fitting with integrated test port
- 4 Secondary contained pipe
- 5 Vacuum line to secondary contained tank
- 6 Tank installation kit
- 7 Line weight (included with tank install kit)
- 8 Syphon check valve
- 9 EVO™ 550, EVO™ 5000, EVO™ 600, or EVO™ 6000 with SCM software



9



7

## ORDERING INFORMATION

### Secondary Containment Control Modules

Model	Description
TS-SCCM/1	Single channel secondary containment control module
TS-SCCM/2	Dual channel secondary containment control module
TS-SCMCAL	Leak generator kit, one per station
VS-SCCM/1	220 VAC single channel secondary containment control module
VS-SCCM/2	220 VAC dual channel secondary containment control module

### Accessories

Model	Description
TSP-SCBRB	¼" NPT barbed fittings (Qty 5)
TSP-SCBRBT	¼" NPT barbed T-fitting
TSP-SCCLP	Hose clamps (Qty 5)
TSP-SCTB25	25' vacuum hose
TSP-SCTB50	50' vacuum hose
TSP-SCTB100	100' vacuum hose
TSP-SCVLV	Schreader valves (Qty 5)
400137937	Syphon check valve
TSP-SCVLV-PF	Push-Fit stem to Barb fitting (Qty 5)

### Installation Kits

Model	Description
TSP-SCLSI	Product, vapor line and sump containment install kit
TSP-SCTK2	Tank containment install kit for 2" NPT risers, in-tank hose sold separately
TSP-SCTK2B	Tank containment install kit for 2" BSP risers, in-tank hose sold separately
TSP-SCTK4	Tank containment install kit for 4" NPT risers, in-tank hose sold separately
TSP-SCTK4B	Tank containment install kit for 4" BSP risers, in-tank hose sold separately