

Secondary Containment Vacuum Sensing System

Maximize protection with a vacuum monitored secondary containment system.



A Secondary Containment Vacuum Sensing System for use with Veeder-Root's ATG Systems. The Secondary Containment Vacuum Sensing (SCVS) System is designed to detect leaks in double-walled tanks and piping systems while helping to contain a release of product while under vacuum. The system consists of:

- Vacuum Sensors, connected to tank, sump or piping interstices
- A Submersible Turbine Pump (STP), to provide a source of vacuum
- A Smart Sensor Interface with Embedded Pressure Module in a TLS-350 Monitoring System

The Vacuum Sensor is interfaced to Veeder-Root's TLS-350 Monitoring System via intrinsically safe wiring to provide system status, replenish rate, alarm, and diagnostic information.

Vacuum Sensor Kits are available in a variety of models:

- For monitoring double-walled piping and sump interstices
- For monitoring double-walled steel tank interstices (see back page)
- For double-walled fiberglass tanks

These kits differ in the number of vacuum sensors and the configuration of associated liquid sensors. An inline kit mounted liquid sensor is used for Vacuum Sensors monitoring piping and sumps. An external liquid sensor (to be installed in the secondary space at the bottom of the tank) is provided with one of the Vacuum Sensors in the steel and fiberglass tank kits to monitor the tank.

Features and Benefits

Satisfy Requirements

- Certified to meet California's requirement for secondary space monitoring for tanks and lines as required by AB 2481
- Satisfies the requirements for Class I Leak Detection as defined by the European Standard EN 13160-2
- 3rd Party, National Work Group and LG113 listed

Reduce Exposure to Risk

- Alarms when vacuum cannot be maintained or when replenish rate exceeds 85 liters per hour
- The system alarms when liquid is detected in the secondary space

- Facilitates periodic operability testing

Leverage Existing Veeder-Root Systems

- Uses STP as the vacuum source and works with Red Jacket and FE STPs
- Installs in the STP sump and connects to the console via intrinsically safe wiring
- Able to share wiring conduit with other Veeder-Root intrinsically safe (IS) probes and sensors including sump or line leak sensors
- Interfaces to the Smart Sensor Interface with Embedded Pressure Module
- Provides for positive shut down of pressurized lines when required
- Simple installation, no need to mess with brine

Operating Temperature Rating:

-25 degrees C to +70 degrees C

Cable Length:

8 feet

Sensor Dimensions:

5" high x 5" wide 2" deep

Console Capability

The Vacuum Sensor is compatible with the following consoles:

Console

TLS-350R/EMC w/BIR*
 TLS-350 Plus/EMC Enhanced*
 TLS-350/EMC*

*Upgrade Note: The Vacuum Sensor System requires the console to have version 24C software (or greater) along with an ECPU2 or ECPU w/ NVMEM 1 board.

Standard Models

Veeder-Root P/N	Description
330020-467	4 Vacuum Sensor Kit* for steel tank
330020-468,-469,-470,-471	4 Vacuum Sensor Kit* for fiberglass tanks (4',6',8',10')
330020-486	4 Vacuum Sensor Kit* for no tank
330020-472	3 Vacuum Sensor Kit* for steel tank
330020-473,-474,-475,-476	3 Vacuum Sensor Kit* for fiberglass tanks (4',6',8',10')
330020-485	3 Vacuum Sensor Kit* for no tank
330020-479	2 Vacuum Sensor Kit* for steel tank
330020-481,-482,-483,-484	2 Vacuum Sensor Kit* for fiberglass tanks (4',6',8',10')
330020-480	2 Vacuum Sensor Kit* for no tank
330020-495	1 Vacuum Sensor Kit* for no tank
857280-100	Vacuum Sensor for piping & sumps
857280-200	Vacuum Sensor for steel tanks
857280-301,-302,-303,-304	Vacuum Sensor for fiberglass tanks (4',6',8',10')
330020-448	Mounting Kit
332217-001	Relief Valve Assembly
332250-001	Smart Sensor w/Embedded Pressure Sensor Module (7 Channel)**

Accessories Part Description	Quantity/Length	Part Number
1/4" NPT Barbed Fittings	3	330020-487
1/4" NPT Barbed Fittings	15	330020-488
1/4" NPT Barbed Fittings	25	330020-489
Barbed Tee	1	576008-657
Vacuum Hose 25'	25'	332310-001
Vacuum Hose 50'	50'	332310-002
Vacuum Hose 100'	100'	332310-003
3-Way Ball Valve	1	576008-649
Schrader Valve Barbed Fitting	3	330020-496
Schrader Valve Barbed Fitting	15	330020-497

* Kits include mounting bracket, 6' of vacuum hose, relief valve assembly (if required) and the appropriate number of liquid sensors, 3-way ball valves, barbed fittings and hose clamps so that each vacuum sensor can monitor a single tank, sump or piping interstices.

** The Vacuum Sensing System requires one 7 channel Smart Sensor Interface with Embedded Pressure Module, 8 channel Smart Sensor Modules (p/n 329356-004) can be used for Vacuum Sensors eight and above.

For more information call: **1-888-561-7942**

Protects *your* investment
and the environment.

**Secondary Containment Vacuum Sensing System -
Steel Tank 4 Vacuum Sensor Kit Installation**

