

Vapor Sensor



The 25VS chemi-resistive flammable vapor sensor from Therm-O-Disc® is an integral part of the Flammable Vapor Ignition Resistance (FVIR) systems offered by the North American water heater manufacturers on residential power vent and high efficiency atmospheric models. The sensor is designed to detect the presence of a specific concentration of gasoline vapors. The proprietary conductive polymer sensing film expands in the presence of flammable vapors significantly changing sensor resistance. When connected to an electronic gas valve control the sensor's resistive output can be utilized to drive specific FVIR system actions.

## Specifications

Gasoline vapor concentration  
50% LFL

Trip Point  
50 k $\Omega$  (less than 60 seconds)

Operating Temperature Range  
0°C to 65°C (32°F to 150°F)

Storage Temperature  
-40°C to 80°C (-40°F to 176°F)

Voltage  
5VDC

Humidity  
10% to 90% RH

## Features

- Conductive polymer sensor film
- Insert molded base with 3/16" x 0.020" stainless steel quick connect blade terminals
- Molded thermoplastic cover ultrasonically welded to the base
- "One-shot" use device (should be replaced after an exposure to flammable vapor)