



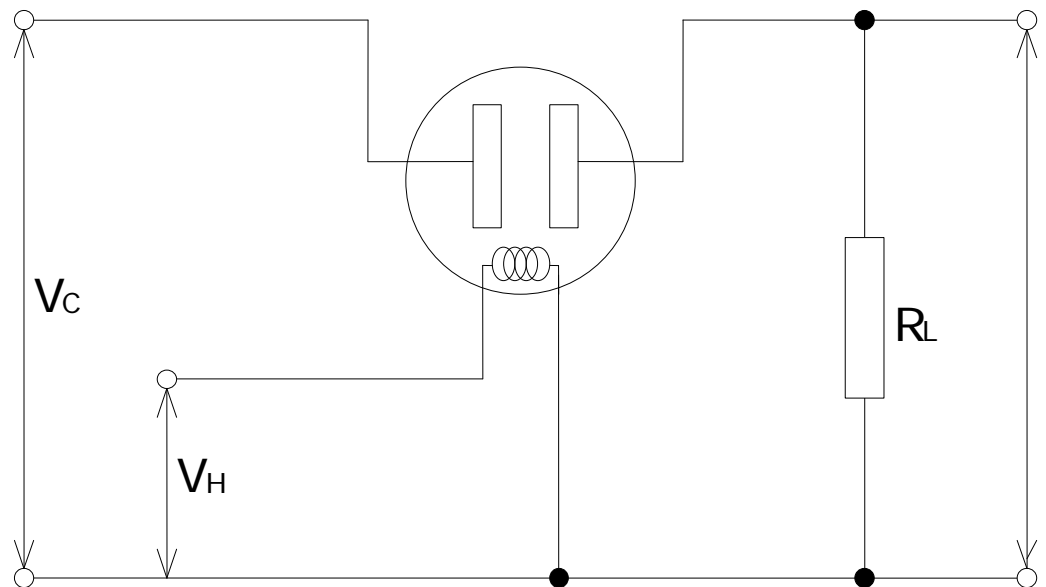
ARTICLE

Detection principle chemisorption (CS)

In chemisorption, the sensor element is integrated with a diplexer. The sensor element has the ability to change its electrical resistance depending on surrounding gas concentrations.

The semiconductor is heated to 572°F (300°C). During absorption of the combustible or toxic gases on the sensor surface, the resistance of the sensors decreases. This resistance change is evaluated electronically. Different semiconductors are used for different gases.

Chemosorption sensors are used for combustible and toxic gases. As a sensor element for tin oxide (SnO_2), for example, sintered N-substrate is used.



V_C = Power supply
 V_H = Heating voltage
 R_L = Load resistance

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