Da Vinci LS H2 sensor

Continuously monitor hydrogen in the GC oven.



Control unit · Original image: Da Vinci

LEAK DETECTION AND RESPONSE

A sensor in the oven of the gas chromatograph continuously measures the hydrogen concentration. The external control unit displays the measured value. If the concentration exceeds the set alarm value, the system switches the carrier gas to nitrogen, sends a stop signal to the gas chromatograph and warns both acoustically and through a flashing display.

SELECTED DATA

Measuring range	0 to 50 % of the lower explosion limit (UEG); approximately 0 to 2 % by volume of hydrogen
Typical alarm value	25 to 50 % UEG; about 1 to 2 % hydrogen by volume, adjustable
Sensor connections	Up to four sensors on one control unit
Control unit	11 × 14 × 5,5 cm (width × depth × height)

The lower explosion limit is the lowest concentration of a combustible gas at which an ignitable mixture can be formed. Manufacturer documents use the English abbreviation LEL for this purpose.

OPTIONAL SENSOR SOFTWARE

Configuration, individual alarm values, user management and event log. The dashboard shows metrics and alarm status; email messages are configurable. Individual and network operation is possible. CHROMTECH tunes the sensor, gas switching and stop signal to the existing system.

Technical basis: current Da Vinci product and software page; original flyer DVE.44.02. Editorial abbreviated English version of CHROMTECH.

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