



HYDROGEN LEAK DETECTOR



HLD Series

Hydrogen leak detector for plate heat exchangers

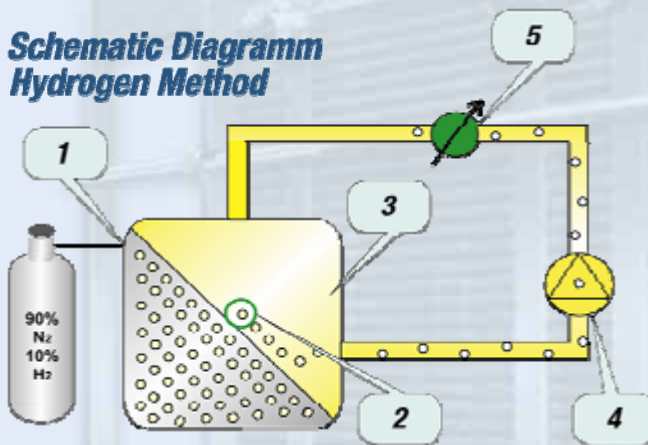


UNIQUE AND RELIABLE

The hydrogen leak detector of the HLD series is the perfect instrument for industrial leak detection.

It is small, robust, and extremely sensitive to hydrogen gas. It can be used to detect leaks up to 5×10^{-7} mbarl/s. As it is insensitive to other gases, testing results are 100% reliable.

Schematic Diagramm Hydrogen Method



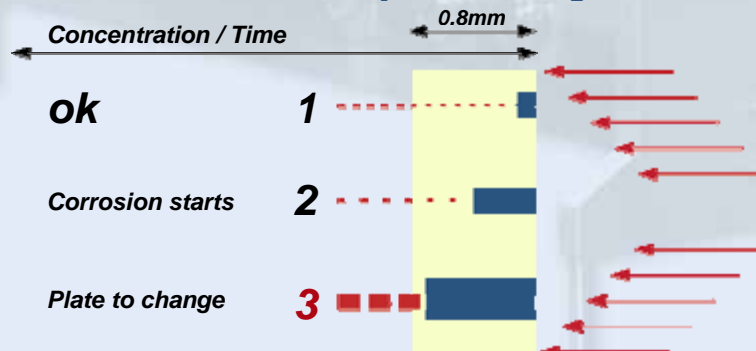
- 1 secondary side gas filled
- 2 Hydrogen-molecule-transfer
- 3 measuring area
- 4 circulation pump
- 5 Sensor

OPTIMAL TRACER GAS

Hydrogen being the least expensive tracer gas available, we use a tracer gas mix which contains 5-10% H₂. Due to its low viscosity and its small mass, hydrogen spreads extremely fast in the plate heat exchanger, thus reliably detecting even the smallest leak in a minimum of time. (Food and beverage accreditation E949).

Hydrogen Method

Advanced identification by material fatigue:



AUTOMATIC SYSTEM HLD600



- Automatic sampling AS-29
- Automatic calibration
- Automatic draining
- Automatic gas placement
- Automatic sample interval
- Logging
- Mobile carriage

HAND-HELD UNIT HLD400



- Easy manual operation
- Mobile, battery-powered
- Standard probe HS 50
- Transport box with handle bag

Product facts:

Sensitivity:	0.5 ppm Hydrogen, equivalent to leak rates up to 5×10^{-7} mbarl/s
actual gas mix:	tracer gas, 5-10% hydrogen and 90-95% nitrogen
reaction time:	< 1 sec.
Start up time:	1 minute
Calibration:	Calibration gas or external reference leak.
Front panel:	Illuminated 256 x 64 pixel LCD, loudspeaker, earphone socket. Green LED for status, Red LED for alarm
Rear panel:	D-sub connector with status signals 24 V DC / 0,5A Serial Interface (RS232)
Maintenance:	None
Power supply:	100-240 VAC, 50/60 Hz
Dimensions:	HLD400 275x155x170mm
Weight:	HLD400 4,6 kg

FISCHER Maschinen- u. Apparatebau AG

Linke Bahnzeile 22, A-2483 Ebreichsdorf, Austria / Europe, Tel.: +43 [0]2254.72212,
Fax: +43 [0]2254.73715, e-mail: info@fischer-ag.com, www.fischer-ag.com