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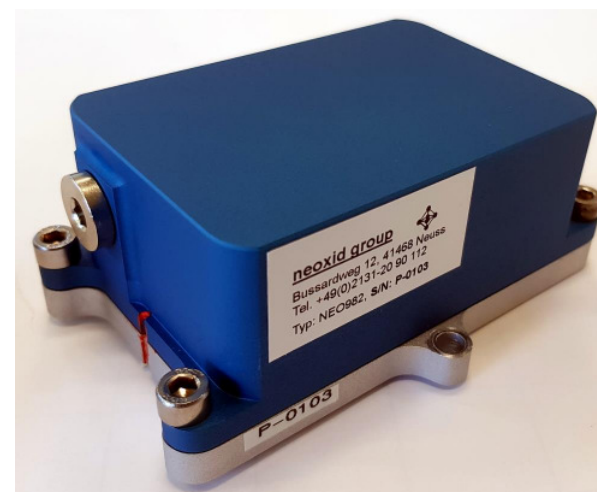
neo hydrogen sensors GmbH

www.neohysens.de



neo hydrogen sensors GmbH

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Products / Applications

neo hydrogen sensors GmbH produces and sells new hydrogen-sensing-sensors and hydrogen-sensing-systems for a broad range of applications. The development for this new technology of H₂-sensing-elements based on 10 years successfull work. We specialized in

unheated, inorganic, nanostructured sensing-elements with a high, narrow band sensitivity to hydrogen gas, minimized power consumption and short response times.

Our product range comprises:

- H₂-sensing-elements for industrial applications e.g. measuring hydrogen in air, inert-atmosphere and in natural-gas
- H₂-sensing-elements for use in fire-alarm-systems
- H₂-sensing-elements for H₂-leakage detection in automotive applications

[Here you'll find a downloadable overview of all H₂-sensing-elements.](#)

neo hydrogen sensors GmbH has the licence for the EP-patent "DIODE THIN FILM ASSEMBLY FOR DETECTING HYDROGEN AND METHOD FOR THE PRODUCTION THEREOF, AND HYDROGEN SENSOR". It's officially released under the european number EP2643690 and under the german patent number DE102011122119A1.

Product informations:

[Datasheet H₂-Sensorsystem NEO985A for measuring 0 to 100 Vol.-% H₂ in Automobiles](#)

[Datasheet H₂-Sensor System NEO982A for Automobile Exhaust](#)

[Datasheet H₂-Sensor System NEO972A for Leak Detection in Automobiles](#)

[Data sheet H₂ burner NEO322](#)

[H₂-sensing system NEO971 for leakage detection](#)

Homepage: www.neohysens.de



Contact: Dr. Dieter Ostermann

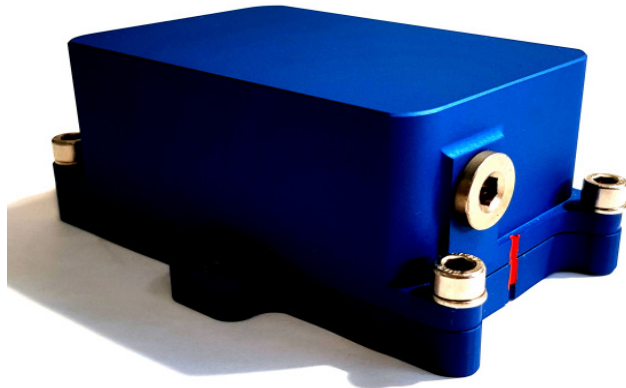
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Products / Applications

Datenblatt H₂-Sensorsystem NEO965A zur Li-Ionen-Batterieüberwachung für Automobilanwendungen



Von Lithium-Ionen-Zellen gehen bei mechanischen Beschädigungen, Wassereindringungen, Überladungen und Tiefentladen Gefahren aus, da brennbare Gase (u.a. Wasserstoff) austreten und im ungünstigsten Fall zu einem Feuer führen können!

Unser NEO965A-Sensor detektiert direkt in der Batterie sowohl die Wasserstoff-Konzentration, reduzierende und oxidierende Gase, den Gas-Druck (Druckanstieg bei Gasaustritt), Wasserentstehung und die Batterietemperatur ("Thermischen Durchgehens" bzw. thermal runaway).

Wichtigste Eigenschaften:

- Messbereich H₂: 0% bis 4% Vol.-% in Luft
- Toleranz ± 0,3 Vol.-% H₂
- Detektion von reduzierenden und oxidierenden Gasen
- Temperaturmessbereich: -40 bis 90 °C
- Druckbereich: 65 bis 120 kPa, d.h. 650 - 1.200 mbar absolut
- Luftfeuchtigkeit: 0 bis 100 % r.h. (auch kondensierend)
- Ansprechzeit: t₉₀ < 3s
- Erholzeit: t₁₀ < 3s
- Signal: CAN 2.0

[Datenblatt H₂-Sensorsystem NEO965A](#)

H₂-burner NEO322



Application:

- Catalytic, flameless, thermal combustion of H₂/air gas mixtures
- Combustion of hydrocarbon-gas mixtures (at increased starting temperature)
- Conversion of waste hydrogen
- Catalytic afterburning of fuel cell exhaust gases or electrolysis gas
- Purification of air or e.g. helium
- Depletion of oxygen or hydrogen in chemical processes
- Generation of heat energy / heating energy
- Safety technology, explosion prevention, fire prevention through O₂ depletion

[Data sheet H₂ burner NEO322](#)

NEO972A - H₂-Sensor System NEO972A for Leak Detection in Automobiles



Application:

- Detection of hydrogen gas in the cabin of automobiles
- Determination of hydrogen gas concentration under atmospheric conditions

[Datasheet H₂-Sensor System NEO972A for Leak Detection in Automobiles](#)

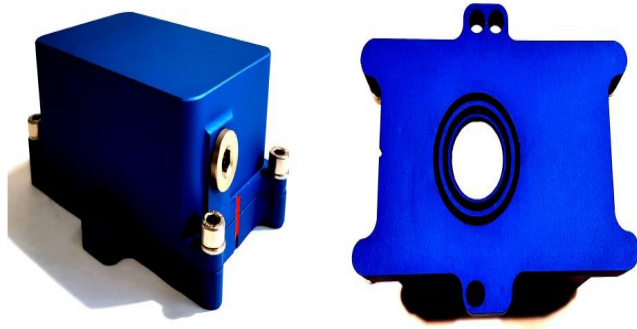
NEO982A - H₂-Sensor System NEO982A for Automobile Exhaust



Application:

- Detection of hydrogen gas in automobile exhaust
- Determination of hydrogen concentrations under atmospheric conditions
- Fuel cell exhaust gas measuring possible under condensing conditions

[Datasheet H₂-Sensor System NEO982A for Automobile Exhaust](#)

NEO985A - H₂-Sensorsystem for measuring 0 to 100 Vol.-% H₂ in Automobiles**Application:**

- Detection of hydrogen gas in the fuel line of automobiles
- Determination of hydrogen gas concentration under inert conditions

[Datasheet H₂-Sensorsystem NEO985A for measuring 0 to 100 Vol.-% H₂ in Automobiles](#)

NEO992 - H₂-sensing-system for use in fire-alarm-systems**Application:**

Detection of different types of fire (tested according to the DIN EN 54 with TF1-5 and TF8).

Advantages:

- Faster fire recognition (less than 35 seconds)
- Reduction of false alarm due to detection of invisible fire-trace-gas hydrogen
- Detection of smoldering before the smoke spreads
- Prevention of hydrogen-explosions in combination with safety-systems

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