

HYDROGEN LEAK DETECTOR

Product Overview

There is a growing need for FCVs and HICEs around the world, but their success depends on advanced onboard hydrogen detection to protect passengers and meet strict safety regulations. New Cosmos offers compact, highly sensitive sensors for fast, reliable detection of even trace hydrogen.



Key Features

- 01 Fast Response Time & Excellent Responsiveness
- 02 High Durability
- 03 Sensor Poisoning Resistant
- 04 Accuracy: High Sensitivity & Selectivity

Applications :

- Hydrogen-powered automobiles
- Hydrogen-powered heavy-duty trucks
- Hydrogen-powered buses
- Hydrogen-powered construction equipment
- Hydrogen-powered aircraft

 NEW COSMOS ELECTRIC CO.,LTD.

Offices

Head Office (Osaka, Japan)
2-5-4 Mitsuyana, Yodogawa-ku, Osaka, Japan 5320036
Phone: +81-6-6885-8484
E-mail: e-info@new-cosmos.co.jp

Thailand Office
4345 Bhiraj Tower at BITEC, 23rd Floor, Sukhumvit Rd.,
South Bangna, Bangna, Bangkok 10260 Thailand
Phone: +66-2-017-5175
E-mail: info.cosmosthailand@new-cosmos.co.th

Paris Office
128 Rue Du Faubourg Saint-Honore, 75008 Paris, France
Phone: +33 6-62-93-51-53
E-mail: info@new-cosmos.fr

Group Companies

NEW COSMOS ELECTRIC (SHANGHAI) CO., LTD.
4th Plant No.385, Dongxing Road, Songjiang Industrial Zone,
Shanghai, China 201613
Phone: +86-21-6774-3138
E-mail: info@new-cosmos.com.cn

NEW COSMOS ELECTRIC KOREA CO., LTD.
3F,4F BMY Tower, 16, Teheran-ro 27-gil, Gangnam-gu, Seoul, Korea
Phone: +82-2-555-3102
E-mail: info@new-cosmos.co.kr

TAIWAN NEW COSMOS ELECTRIC CO.,LTD
10F.-3, No. 93, Shuiyuan St., East Dist., Hsinchu City 300042, Taiwan
Phone: +886-3-574-4593
E-mail: cosmost1@ms75.hinet.net

New Cosmos USA, Inc.
650 Warrenville Road, Suite 101, Lisle, IL 60532, USA
Phone: +1-847-749-3064
E-mail: support@newcosmosusa.com

New Cosmos-BIE (Netherlands)
Maxwellstraat 7, NL-1704 SG, Heerhugowaard,
the Netherlands
Phone: +31-72-576-5630
E-mail: sales@newcosmos-europe.com

REASONS TO CHOOSE OUR PRODUCTS

Choosing the right hydrogen gas leak detector is essential for safety and cost-effectiveness. Our products excel due to their unmatched safety, rapid response, and affordability. With a proven track record and compliance with regulations, they ensure reliable performance. Our innovative partnerships and tailored solutions further distinguish us as industry leaders.



Diverse Usability

The IP67 seal enables the use of Hydrogen Leak Detector across a variety of applications.



Cost-Effective

By utilizing advanced mass production technology, we offer a cost-effective solution without compromising on quality or performance.



Proven Track Record

0 field defects in on-board hydrogen detectors reported since 2020



Custom Detection Solution

By managing everything from sensor development to equipment creation, we can develop a tailored solution to your vehicle.

HOW TO USE

The Hydrogen Leak Detector sensor is usually positioned near the hydrogen storage tank, hydrogen gas piping, fuel cell, or within the vehicle cabin.



* Illustration purposes

Specifications*

Model	CSD-04	CSD-05	CTD-04
Target Gas	Hydrogen		
Detection Principle	Catalytic Combustion		Thermal Conductivity (MEMS TYPE)
Supply Voltage	8 to 32 VDC		
Detection Range	0 to 40,000ppm		0 to 10 vol%
Output	CAN	PWM	CAN
Response Time(T90)	≤ 3 seconds		≤ 6 seconds
Accuracy	± 10% *Accuracy is guaranteed for 10,000 ppm or above.		± 20% *Accuracy is guaranteed for 1 vol% or above.
Power Consumption	In normal operation: 1.6 W maximum, at power-up: 2.4 W maximum		In normal operation: 500mW max *Excluding rush current or power-up
Operating Temperature/Humidity	-40 to 105 °C / 0 to 100 %RH *No Condensation		
Storage Temperature/Humidity	-40 to 105 °C / 0 to 100 %RH *No Condensation		
Mounting	Pitch 62 x dia. 8.5 (2 places)		
Weight	Approx. 62 g		
Compliance	CE (RoHs, EMC: EN50498)		
Ingress Protection	IP67 or equivalent		

* Under development

CUSTOMIZATION :

The Hydrogen Leak Detector Sensor may be customized to meet application needs. Solutions may be tailored to exact specifications for improved time to market, lower total system costs, and enhanced reliability. For technical assistance, we provide global engineering and service support for your needs.



SAFETY WARNING

Carefully read the instruction manual prior to use.
Select and use the device designed to detect the required type of gas. Use of a wrong sensor type may cause an accident.