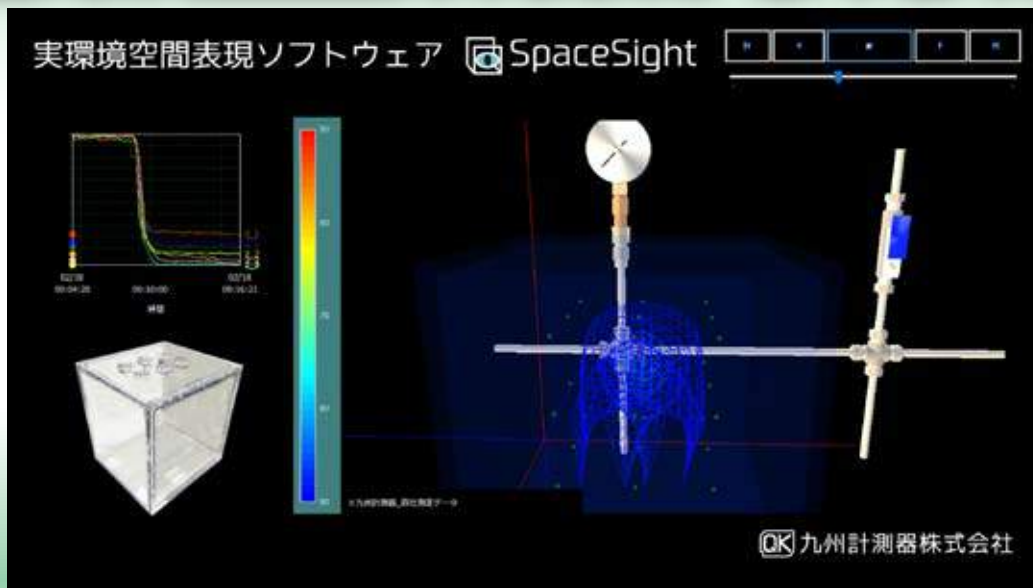


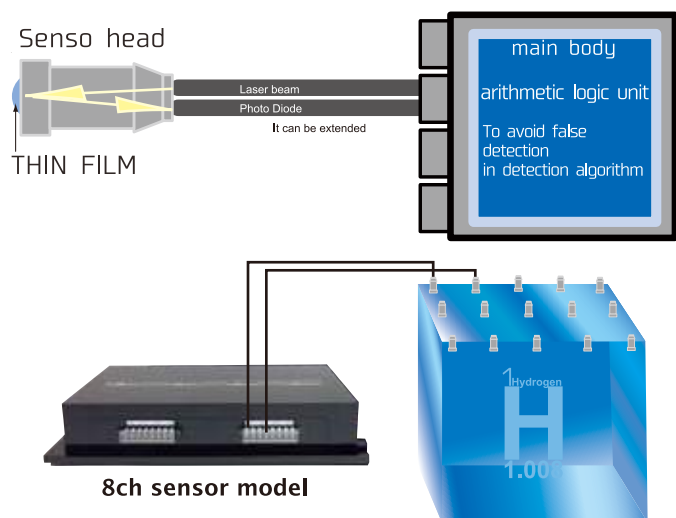
# HYDROGEN GAS VISUALIZATION SYSTEM



Check the diffusion of hydrogen,  
System of the hydrogen leak detection of high accuracy.

- ◆ Direct measurement of hydrogen gas space
- ◆ Multi-point measurement system of low-cost
- ◆ Set the threshold of hydrogen concentration
- ◆ Further fast response in an oxygen-free space

It does not use electricity,  
there is no need of explosion-proof structure



Sensor system	Thin Film(Mg-Ni)+ optical measurement
Target gas	Only Hydrogen
concentration	100ppm~100%
Communication Type	LAN,Bluetooth ZibBee
Body power consumption	1W(max)
LIGHT SOURCE	1550nm
Supply Power	DC5V

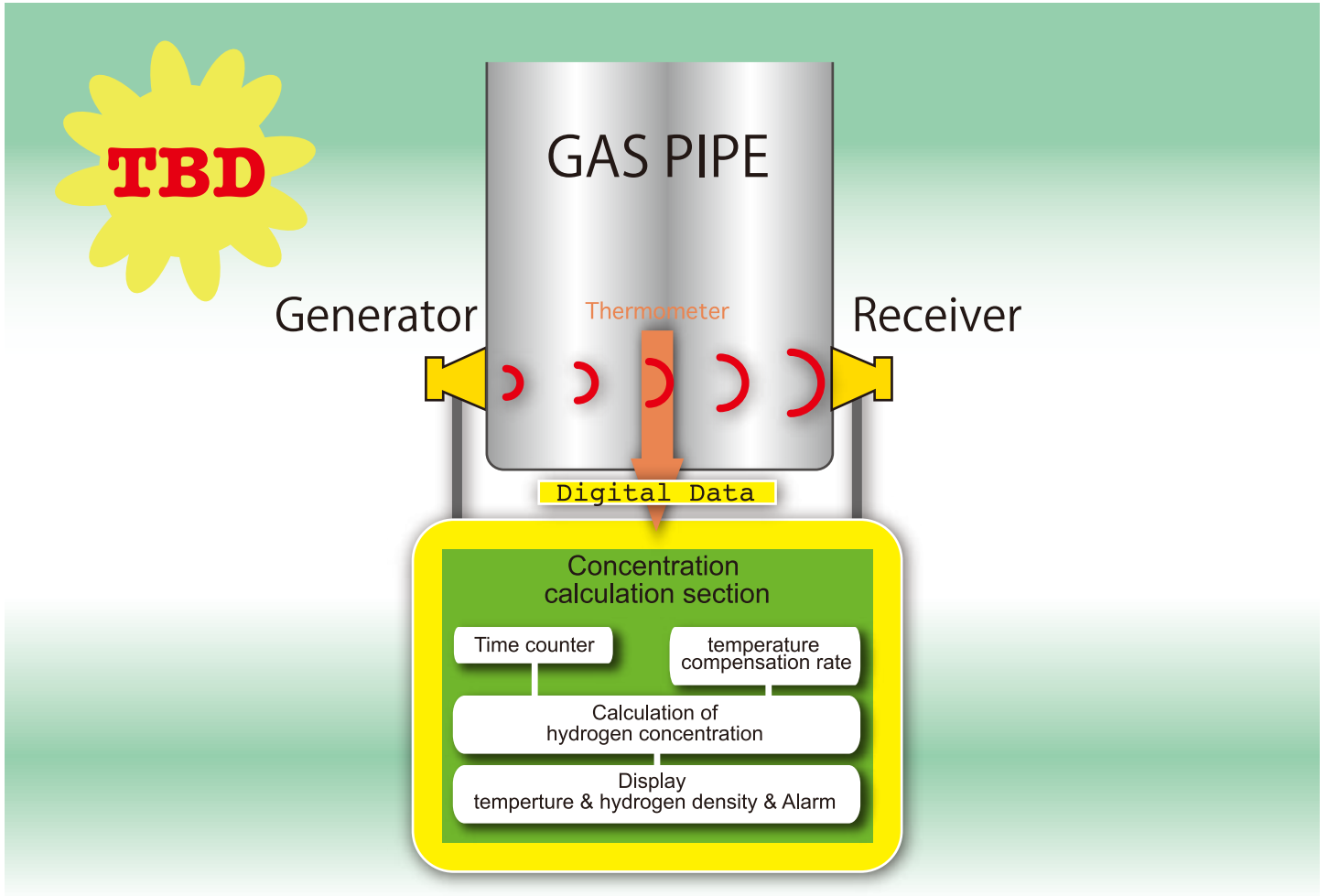
※A laser beam comes out through an element (sample) at the time of the hydrogen detection module electricity.  
※The existing model does not have the density judgment function.

Adoption :  
ISAS / JAXA hydrogen leak detection system



Ex)Demonstrating the diffusion of hydrogen gas

■Mention contents are things as of January 9, 2016 in this catalogue.  
We may change the items mentioned / specifications of the catalogue without apologies.  
Please confirm the detailed product information in right contact information.



**Ultrasonic Hydrogen  
Non Contact Sensor**

**The Fastest response**  
**1msec**

**CAN BE DETECTED CONTINUOUSLY**

It does not need the hydrogen adsorption, a real-time measurement is possible.

**NO CALIBRATION**

No need for maintenance.

**STRONG TO CHEMICALS**

This products less degradation of an chemical component.

**NO NEED TO HEAT UP**

Detecting hydrogen gas, under aerobic and anaerobic environments.

**Difference in sound velocity**

GAS TYPE	SOUND SPEED(M/SEC)	TEMPERATURE COEFFICIENT
H <sub>2</sub> (20°C)	<b>1310</b>	<b>2.2</b>
DRY AIR (20°C)	<b>344</b>	<b>0.607</b>

**specification**

DETECTION METHOD	ULTRASONIC TYPE
PRINCIPLE	MEASURING SOUND VELOCITY
H <sub>2</sub> ADSORPTION	UNNECESSARY
CALIBRATION	UNNECESSARY
MEASUREMENT RANGE	100PPM~100%
DETECTION RATE	<1mSEC

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