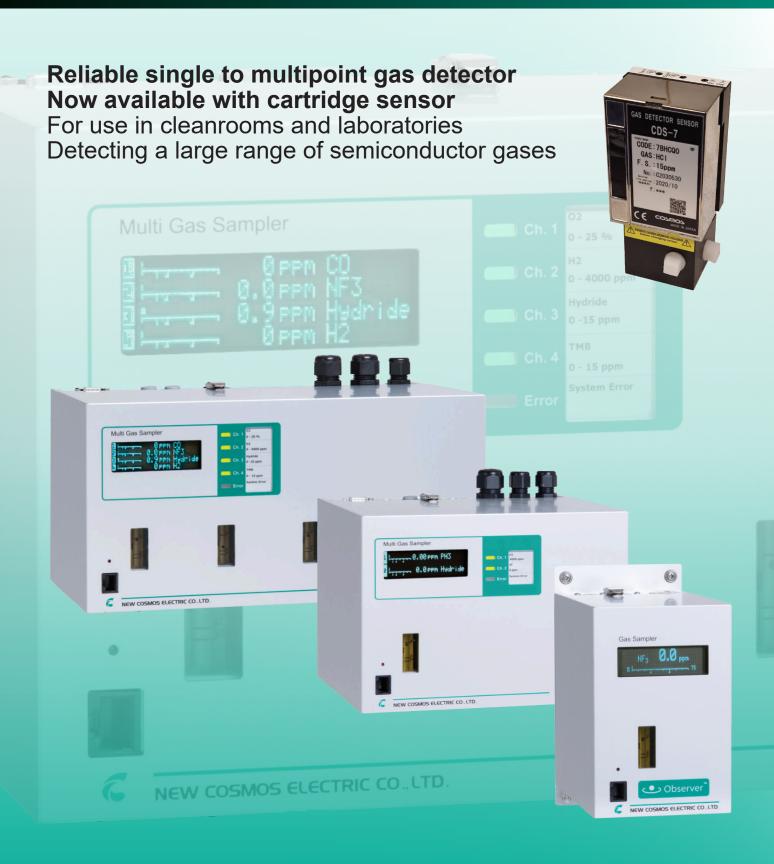
CO7WO7

Gas Detector with cartridge sensor by New Cosmos - BIE

SH-WAD/CDS series gas detector



Gas Detector with cartridge sensor by New Comos - BIE SH-WAD/CDS series gas detector

The SH-WAD/CDS series gas detectors have become the standard safety solution for many production facilities and research centres. They are not only used in cleanrooms, but also very useful in many other hazardous environments. The SH-WAD/CDS gas detectors can be equipped with universal plug-in modules for the provision of additional functions and communication protocols. All units comply with the most stringent quality standards and are extremely reliable. With the integrated self diagnostics functions you are quickly notified on any possible disruption. In-Control Software will provide access to additional information about any changes in the status of the unit. The cartridge sensor fits directly in the SH-WAD/CDS detector. The SH-WAD/CDS detector operates with all cartridge sensors from the models CDS-7, COS-7, CHS-7 and CLS-7 from New Cosmos. The SH-WAD/CDS detector is available as 1, 2 or 4 sensor models with 1, 2 or 4 pumps depending on the application.

Features and benefits

- SH-WAD series detector developed to fit many application in the semiconductor industry and for research institutes.
- The WAD (Wide Angle Display) allows easy read out of display also in dark areas
- Wide range of configuration possible including voting between sensors and timing function for end point detection applications
- SIL 1 capable
- Easy click fitting sample gas in- and outlets for easy installation
- Optional Relays, ModBus-RTU and Profibus-DP available
- Cartridge sensors reduce maintenance time and do not require maintenance parts, resulting in lower cost of ownership
- The CLS-7 sensor for NF3 now with integrated pyrolizer, a unique feature that reduces maintenance time resulting in lower cost of ownership
- Shorter downtime on sensor change due to cartridge sensor design
- · CLS-7 sensors now with longer expected lifetime

Appearance and part names



| Model | Description |
|----------------|---|
| SH-1003WAD/CDS | Single detector detecting 1 gas with 1 pump |



| Model | Description |
|----------------|--|
| SH-2001WAD/CDS | Double detector detecting 2 gases with 1 pump |
| SH-2002WAD/CDS | Double detector detecting 2 gases with 2 pumps |



| Model | Description |
|----------------|---|
| SH-4001WAD/CDS | Quadruple detector detecting 4 gases with 1 pump |
| SH-4002WAD/CDS | Quadruple detector detecting 4 gases with 2 pumps |
| SH-4004WAD/CDS | Quadruple detector detecting 4 gases with 4 pumps |

Options

- Controllerbox for single WAD only, to enable Relay, Modbus-RTU, Profibus-DP output
- Relay card with for 4 free-programmable relays (SPDT)
- Modbus-RTU output RS-485
- Profibus-DP output RS-485
- · Voting, combine multiple sensor signals
- (EPD) End Point Detection, adjustable pump timing

| Model | SH-1003WAD/CDS | SH-2001WAD/CDS | SH-2002WAD/CDS | SH-4001WAD/CDS | SH-4002WAD/CDS | SH-4004WAD/CDS |
|--------------------------------------|------------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| Number of gases | 1 | Max. 2 | Max. 2 | Max. 4 | Max. 4 | Max. 4 |
| Number of sample points | 1 | 1 | 2 | 1 | 2 | 4 |
| Expected service life ⁽¹⁾ | 10 years | 10 years | 10 years | 10 years | 10 years | 10 years |
| ModBus-RTU / Profibus-DP / Relays | Optional controllerbox required | Optional | Optional | Optional | Optional | Optional |
| Power consumtion | 24Vdc / 14.4W max. | 24Vdc / 14.4W max. | 24Vdc / 20.0W max. | 24Vdc / 14.4W max. | 24Vdc / 20.0W max. | 24Vdc / 20.0W max. |

1) Applicable for detector, excluding sensor and pyrolizers

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Target gases Cartridge sensors

| Model | Target gases | | |
|--------------|---|--|--|
| CDS-7 | AsH3; B2H6; Br2; Cl2; ClF3; CO; COS; DMA; F2; GeH4; H2S; H2Se; HBr; HCl; HF; Hydride; NH3; NO; NO2; O3; PF3; PH3; Si2H6; SiH2Cl2; SiH4; SO2; TMAL | | |
| COS-7 | 02 | | |
| CHS-7F | C2H2; C3H8; C6H12; C7H8; C8H18; CH2Cl2; CH2F2; CH2O; CH4; CHCl3; CHF3; i-C4H10; Gasoline; H2; R134a; TLC; | | |
| CHS-7C | C2H2; CH3OH; CH4; Gasoline; H2 | | |
| CLS-7 series | AsH3; CO; GeH4; NH3; PH3; SiH4; NF3 | | |

Other gases on request

Specifications SH-WAD/CDS series detector