

Be sure, be safe.

COSMOS

PORTABLE SEMICONDUCTOR GAS DETECTOR

XPS-7II

World's Smallest Portable Gas Detector Also Suitable for NF₃ Detection

Various semiconductor gases can be detected
by changing the sensor unit



CE

Features

- **NF₃ can be detected without any optional equipment.**
- **The calibrated gas sensor unit can be replaced on site, reducing maintenance work.**
- **Large LCD**
- **2-way power supply: Dry batteries and AC power supply (optional)**
- **Small and lightweight**
- **The Speed of alarm sound changes depending on gas concentration.**

Detectable Gas List

Sensor unit model	Detectable gas		F.S.	Alarm set value	
				1st stage	2nd stage
XDS-7NH	NH ₃	Ammonia	100ppm	12ppm	25ppm
XDS-7SH	SiH ₄	Silane	25ppm	2.5ppm	5ppm
XDS-7DC	SiH ₂ Cl ₂	Dichlorosilane	25ppm	2.5ppm	5ppm
XDS-7AH	AsH ₃	Arsine	250ppb	25ppb	50ppb
XDS-7PH	PH ₃	Phosphine	1ppm	0.15ppm	0.3ppm
XDS-7BH	B ₂ H ₆	Diborane	500ppb	50ppb	100ppb
XDS-7SE	H ₂ Se	Hydrogen selenide	250ppb	25ppb	50ppb
XDS7GH	GeH ₄	Germane	1ppm	0.1ppm	0.2ppm
XDS-7CL	Cl ₂	Chlorine	5ppm	0.25ppm	0.5ppm
XDS-7CF	ClF ₃	Chlorine trifluoride	1ppm	0.05ppm	0.1ppm
XDS-7HC	HCl	Hydrogen chloride	25ppm	2.5ppm	5ppm
XDS-7HF	HF	Hydrogen fluoride	10ppm	1.5ppm	3ppm
XDS-7HB	HBr	Hydrogen bromide	10ppm	1.5ppm	3ppm
XDS-7NO	NO	Nitrogen monoxide	100ppm	12ppm	25ppm
XDS-7HS	H ₂ S	Hydrogen sulfide	50ppm	5ppm	10ppm
XDS-7CO	CO	Carbon monoxide	250ppm	12.5ppm	25ppm
XDS-7DS	Si ₂ H ₆	Disilane	25ppm	2.5ppm	5ppm
XDS-7F ₂	F ₂	Fluorine	5ppm	0.5ppm	1ppm
XDS-7O ₃	O ₃	Ozone	1ppm	0.05ppm	0.1ppm
XDS-7NF	NF ₃	Nitrogen trifluoride	100ppm	5ppm	10ppm

Specifications

Detection Principle	Electrochemical, Electrochemical + pyrolyzer
Target Gas	Semiconductor gases
Sampling Method	Extractive
Measuring Range	As per delivery specifications
Accuracy *1	±10%F.S. except for XDS-7NF -30%F.S. to +10%F.S. for XDS-7NF
Response time *1	T60: Less than 60 seconds
Display	Four-digit on LCD
Power Source	Alkaline AA battery x 4pcs or Dedicated 100-240VAC/6VDC adapter (optional) ^{*3}
Continuous Operating Time*2	More than 12 hours except for XDS-7NF More than 8 hours for XDS-7NF (by alkaline AA batteries (Toshiba LR6AN) at 20°C, with no gas alarm)
Operating Temperature and Humidity	0 to +40°C, 30 to 85%RH
Compliance	CE (EMC: 2014/30/EU) *3 *4
Dimensions	Approx. W62 × H150 × D128 mm (excluding protrusions)
Mass	Approx. 1.3 kg

*1. Under identical conditions.

*2. The operating time (battery life) may vary depending on environment and conditions of use, storage period, battery manufacturer etc.

*3. AC power adapter do not comply with CE marking.

*4. There are two types of EC-7 sensor stocker, global and domestic (for use in Japan). Global type is CE-marked.

Optional Accessory



- Sensor stocker (for six sensor units) [EC-7]

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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.