

Detect dangerous gas leaks quickly and reliably

# Portable Gas Leak Detector



- ●Enhanced functions allow for work in dark places
  LED light illuminating the front.
  The backlit buttons for easy operation.
- ●One-push access to multiple functions

  Frequently used operations such as LED light ON/OFF,
  alarm/operation sound ON/OFF, and alarm point switching can be operated with single push.
- •Reliable assign for use even in harsh environments
  - OPass 2m drop testing
  - OProtection rating equivalent to IP67
  - OUsable across a wide range of temperature (-20°C to +55°C)
- ●Allows direct readout of 50 type of different gases

| Model                      | SP-230   |  |  |  |  |  |
|----------------------------|--|--|--|--|--|--|
| Туре                       | TYPE SC  |  |  |  |  |  |
| Detection principle        | Hot-wire semiconductor type  |  |  |  |  |  |
| Detection target gas       | Semiconductor material Gas (Refer to Detection target gas list)                              |  |  |  |  |  |
| Calibration gas            | PH <sub>3</sub>  |  |  |  |  |  |
| Concentration display      | LCD bar meter + scale + LED  |  |  |  |  |  |
| Detection range            | Depends on target gas (Refer to Detection target gas list)                                   |  |  |  |  |  |
|                            | (PH <sub>3</sub> :0.1~2.0ppm)  |  |  |  |  |  |
| Detection method           | Pump suction type  |  |  |  |  |  |
| Alarm setpoints            | Default setting: 0.1ppm(PH <sub>3</sub> : 0.1, 2.0 ppm)                                      |  |  |  |  |  |
| Display items              | Operating status icon, flow confirmation icon, operation tone icon, alarm sound icons, alarm |  |  |  |  |  |
|                            | setpoint display, battery level icon, bar meter display, mode display, gas name/message      |  |  |  |  |  |
|                            | display  |  |  |  |  |  |
| Response time              | Within 10 seconds  |  |  |  |  |  |
| (for identical conditions) |  |  |  |  |  |  |
| Gas alarm type             | One-step alarm   |  |  |  |  |  |
| Gas alarm indication       | Lamp flashing, buzzer sounding   |  |  |  |  |  |
| Gas alarm pattern          | Auto reset   |  |  |  |  |  |
| Fault alarm                | Sensor abnormality/Low flow rate/Low battery voltage/System abnormality/Adjustment           |  |  |  |  |  |
|                            | abnormality/Clock abnormality/Pump abnormality   |  |  |  |  |  |
| Fault alarm icon           | Lamp flashing/buzzer sounding/fault information display                                      |  |  |  |  |  |
| Fault alarm pattern        | Self-latching  |  |  |  |  |  |
| Power source               | AA alkaline batteries × 2  |  |  |  |  |  |
| Continuous operating time  | Approx. 13 hours (with alkaline dry batteries, at 25°C, no alarm, no lighting)               |  |  |  |  |  |
| Operating                  |  |  |  |  |  |  |
| temperature/humidity       | -20 °C to +55 °C (no sudden fluctuations)/Up to 95 %RH (no condensation)                     |  |  |  |  |  |
| range                      |  |  |  |  |  |  |
| Protection level           | IP67 equivalent  |  |  |  |  |  |
| Certifications             | CE marking, UKCA marking   |  |  |  |  |  |
| External                   | Approx. 41 mm (W) × 186 mm (H) × 38 mm (D) (excluding projections)/                          |  |  |  |  |  |
| dimensions/weight          | Approx. 220 g (excluding dry batteries)  |  |  |  |  |  |

Detection target gas list

| - Detection target gas list |             |            |            |  |              |             |            |  |  |
|-----------------------------|-------------|------------|------------|--|--------------|-------------|------------|--|--|
| Gas name<br>(standard name) | Display     | Scale<br>1 | Scale<br>2 | Gas name<br>(standard name)                                    | Display      | Scale<br>1  | Scale<br>2 |  |  |
| Phosphine                   | PH3         | 0.1        | 2.0        | Methyl<br>alcohol  | СНЗОН        | 1           | 10         |  |  |
| Acetone                     | C3H6O       | 1          | 10         | Methyl ethyl ketone  | MEK          | 1           | 10         |  |  |
| Arsine                      | ASH3        | 0.2        | -          | Hydrogen<br>sulfide  | H2S          | 0.1         | _          |  |  |
| Ammonia                     | NH3         | 10         | -          | Diborane   | B2H6         | 0.1         | _          |  |  |
| Isobutane                   | I-C4H10     | 1          | 10         |  |              |             |            |  |  |
| Isopropyl<br>alcohol        | IPA         | 1          | 10         | Germane  | GEH4         | 0.2         | _          |  |  |
| Carbon<br>monoxide          | со          | 10         | 30         | Hydrogen<br>bromide  | HBR          | 10          | -          |  |  |
| Ethyl<br>alcohol            | C2H5O<br>H  | 1          | 10         | Hydrogen<br>chloride   | HCL          | 10          | -          |  |  |
| Ethylene                    | C2H4        | 1          | 10         | Freon 407C   | R407C        | 10          | 50         |  |  |
| Vinyl<br>chloride<br>Methyl | VCM         | 1          | -          | Hydrogen<br>selenide   | H2SE         | 0.5         | 17         |  |  |
| chloride                    | CH3CL       | 1          | 10         | Freon 410A   | R410A        | 10          | 50         |  |  |
| Xylene<br>Ethylene          | C8H10       | 1          | 10         | Freon 404A   | R404A        | 10          | 50         |  |  |
| oxide                       | EO          | 1          | 10         | FIEOII 404A  | R1234Y       | 10          | 50         |  |  |
| Silane                      | SIH4        | 0.5        | -          | HFO-1234 <b>yf</b>   | F 12341      | 10          | 30         |  |  |
| Methyl<br>bromide           | CH3BR       | 1          | 20         | Acetylene  | C2H2         | 1           | 10         |  |  |
| Hydrogen                    | H2          | 1          | 10         | Dichloromet hane   | CH2CL2       | 5           | -          |  |  |
| Trichloroeth ylene          | C2HCL3      | 10         | -          | Propylene oxide  | PO           | 1           | 10         |  |  |
| Toluene                     | C7H8        | 1          | 10         | trans-1,2-<br>dichloroethe                                     | C2H2CL       | 1           |            |  |  |
| 1,2-<br>dichloroetha        | EDC         | 1          | 10         | ne   | 2            | ,           |            |  |  |
| ne<br>Sulfur                |             |            |            | Freon 41   | R41          | 1           | 10         |  |  |
| dioxide                     | SO2         | 1 -        | -          | Perfluoro<br>Butadiene   | C4F6         | 5           | 30         |  |  |
| Propane                     | C3H8        | 5          | 20         | Carbonyl<br>sulfide  | cos          | 0.5         | -          |  |  |
| Freon 134a                  | R134A       | 50         | 250        | Deuterium  | D2           | 1           | 10         |  |  |
| Freon 22                    | R22         | 10         | 50         |  |              |             |            |  |  |
| Freon 32                    | R32         | 10         | 50         | Freon 245fa  | R245FA       | 10          | 50         |  |  |
| N-hexane                    | N-<br>C6H14 | 10         | 50         | Trans-<br>1,3,3,3-<br>tetrafluoropr<br>opene (R-<br>1234ze(E)) | R1234<br>ZEE | 10          | 50         |  |  |
| Benzene                     | С6Н6        | 0.5        | 10         |  |              |             |            |  |  |
| Form aldehyde               | нсно        | 10         | 50         |  | —"(bar disp  | av) indicat | 9 00 500   |  |  |
| Methane                     | CH4         | 1          | 20         |  | (nai nisp    | ay) muicat  | e 110 SCa  |  |  |
|                             |             |            |            |  |              |             |            |  |  |

### \*This product is used for detecting ultra-low gas leaks, so the gas concentration values are approximation:

### Even easier to see!

In addition to the conventional LCD display screen, an LED display is mounted.

The current gas alarm point, gas concentration, and operating status are notified in color and on a scale.





### Standard accessories

Numbers in parentheses are part NO.

Protective cover (4126 9248 30)



Tapered nozzle (4126 9249 10)

Hand strap (0888 0605 90)

AA Alkaline batteries (2753 3007 80)



Replacement waterproof filters (4126 9189 30)



## Work in dark places is also safe!

Enhanced functions ensures safety even when working in dark places, LED light illuminating the front, the backlit buttons for easy operation.





## One-push access to multiple functions



LED light ON/OFF



Operation sound, alarm ON/OFF



Gas alarm point switching



Shortcut key assignments

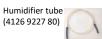
### Optional accessories

Tertiary filters 5 pcs (4126 9199 20)



Inspection gas (0800 0904 10)





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