



# PORTABLE GAS LEAK CHECKER

**LEADERS IN GAS DETECTION**

*Since 1977*

## SP-220 Fumigation Series



### Features:

- Able to detect Fumigation Gas
- Target Gas is selectable from the list of gases
- Easy grip and robust structure
- Ingress proof IP 55, protection rubber cover is available
- High speed, low concentration reading
- Low accuracy readings (0.1 ppm)
- Data logging function available
- Ideal alternative to the detection tubes
- LED light
- Operates continuously for up to 12 hours
- Light weight at just 215 grams

### Applications:

- Fumigation

### Gases:

- PH<sub>3</sub>
- CH<sub>3</sub>Br
- CS<sub>2</sub>
- CH<sub>3</sub>I
- HCN
- SOF<sub>2</sub>
- C<sub>2</sub>H<sub>4</sub>Br<sub>2</sub>

The SP-220 Fumigation Series is a Portable Gas Leak Checker designed to easily check for Gas Leaks from Fumigation applications. Built with a new sensor resistant to silicone poisoning and a new charcoal filter this new instrument is the latest in Gas Leak Checker technology.

The SP-220 Fumigation Series can be operated continuously for up to 12 hours on 2 AA size alkaline batteries, has a switchable alarm and operation sound ON/OFF, and weighs in at only 215 grams. With an ingress proof rating of IP55, LED backlight and an automatic data logger that can be easily downloaded onto a PC, the SP-220 Fumigation Series is the ideal gas leak checker.



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#### Offices/Agents in:

Sydney	Hobart
Melbourne	Auckland
Adelaide	Wellington
Perth	Christchurch



Model	SP-220
Type	TYPE FUM (Fumigation)
Target Gas	Refer to the gas list
Detection Principle	Hot-wire semiconductor method
Sensor	SH-8662
Measuring Range	Depends on target gas
Alarm Set Point	Depends on target gas
Accuracy	Displays 0.1 ppm - bar when applied PH3 0.3 ppm
Alarm Pattern	Gas alarm : Gas concentration reached or over the setting point. Trouble alarm: Sensor connection / breaking, low battery, low flow, circuit error and calibration error
Alarm Method	Non-latching
Display of Alarm	Gas alarm: Flashing LED, buzzer Trouble Alarm: Flashing LED, buzzer, error display message
Alarm Delay Time	0 sec.
Sampling Method	Sample draw
Response Time	10 sec.: Time to reach 0.1 ppm when applied PH3 0.3 ppm
Output Signal	IrDA
Switch	[AIR] [MODE] [POWER]
Display Device	LCD
Display Contents	Gas name & concentration, time, battery, pilot and pump indicator
Power Source	2 AA alkaline batteries
Operation	Continuous for more than 12 hours
Operating Temp & Humidity	-20~+55°C, 0~95%RH (non-condensing)
Dimensions / Weight	200mm (H) x 44mm (D) x 47mm (W), 215 grams
Ingress Proof	IP55
Function	Manual LCD backlight (automatically ON when alarming), peak value, snap logging, protection rubber cover
Standard Accessories	Hand strap, taper nozzle, protection rubber cover
Warranty	Two year warranty on material and sensor



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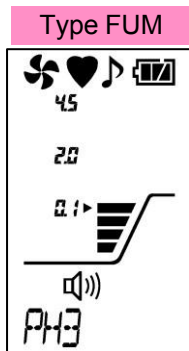
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Gas name	Display	Conc. Display 1 (ppm)	Display 2 (ppm)	Display 3 (ppm)
Carbon disulfide	CS <sub>2</sub>	0.1	-	-
Ethylene dibromide	C <sub>2</sub> H <sub>4</sub> Br <sub>2</sub>	1	10	30
Hydrogen cyanide	HCN	1	-	-
Methyl bromide	CH <sub>3</sub> Br	1	20	100
Methyl iodide	CH <sub>3</sub> I	1	10	30
Phosphine	PH <sub>3</sub>	0.1	2	4.5
Sulfuryl fluoride	SO <sub>2</sub> F <sub>2</sub>	-	-	800



## Gas sensitivity level & Display

SP-220 automatically changes gas sensitivity level depends on target gas.

Gas sensitivity level can be set on 3 (Type FUM) scales.

\*Refer to right figures.

◆How to change the level◆  
Push both 「AIR」+「MODE」 buttons at the same time



**Note 1)** [-]: It means they have sensitivity, but there is no value.

**Note 2)** Alarm accuracy, response time etc. are confirmed with calibration gas (PH<sub>3</sub>)

**Note 3)** The measuring results of the gas selection are intended for guidance only. For the most accurate measurement is for calibration gas (PH<sub>3</sub>)



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