PORTABLE GAS LEAK CHECKER

LEADERS IN GAS DETECTION
Since 1977

SP-220 Toxic Series

Features:

- Able to detect super toxic / combustible / freon gas
- Target gas is selectable from the list on the next sheet
- All gases can be calibrated using (PH3)
- Easy grip and robust structure
- Ingress proof EP 55, protection rubber cover
- High speed, low concentration reading
- Low accuracy readings (0.1 ppm)
- Data logging function available
- Ideal alternative to the detection tubes
- LED light
- Easy to leak check in confined space
- Operates continuously for up to 12 hours
- Light weight at just 215 grams

Applications:

- Super toxic / combustible / freon gas

Gases:

- NH3
- R-134a
- R-22
- R-32
- C6H6
- HCHO
- CH4
- H2S
- R-410A
- R-404A
- And many more

The SP-220 SC series is a portable gas leak checker designed to easily check for gas leaks for super toxic, combustible and freon gases. Operational for up to 12 hours on 2 x AA size alkaline batteries this instrument weighs just 215 grams, is easy to carry and comes standard with a rubber protection cover. Built with a new sensor resistant to silicone poisoning and a new charcoal filter these new instruments are the latest in gas leak checker technology.

With an Ingress Proof rating of IP55, LED backlight, optional silent alarm when 'quiet' work is required and automatic data logger that can easily downloaded onto a PC, the SP-220 SC series is the ideal gas leak checker.

OIL & GAS   CONFINED SPACE   HYGIENE   MINING   LABORATORIES   HVAC   DEFENCE   SHIPPING   FUMIGATION

Model	SP-220 SC Series
Type	TYPE SC super toxic / combustible / freon)
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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Gas Name	Display	Conc. Display 1 (ppm)	Conc. Display 2 (ppm)
1,2-Dichloroethane	EDC	1	10
2, 3, 3, 3-Tetrafluoropropene	CH2C2F4	10	30
Acetone	C3H60	1	10
Ammonia	NH3	10	-
Arsine	AsH3	0.2	-
Benzane	C6H6	0.5	10
Carbon monoxide	CO	10	30
Diborane	B2H6	0.1	-
Ethyl alcohol	C2H5OH	1	10
Ethylene	C2H4	1	10
Ethylene oxide	EO	1	10
Formaldehyde	HCHO	10	50
Germane	GeH4	0.2	-
Hydrogen	H2	1	10
Hydrogen bromide	HBr	10	-
Hydrogen chloride	HCL	10	-
Hydrogen selenide	H2Se	0.5	-
Hydrogen sulphide	H2S	0.1	-
Isobutane	i-C4H10	1	10
Isopropyl alcohol	IPA	1	10
Methane	CH4	1	20
Methyl alcohol	CH3OH	1	10
Methyl bromide	CH3Br	1	20
Methyl chloride	CH3CL	1	10
Methyl ethyl ketone	MEK	1	10
n-hexane	n-C6H14	10	50
Phosphine	PH3	0.1	2
Propane	C3H8	5	20
R-134a	R-134a	50	250
R-22	R-22	10	50
R-32	R-32	10	50
R-404A	R-404A	10	50
R-407C	R-407C	10	50
R-410A	R-410A	10	50
Silane	SiH4	0.5	-
Sulfur dioxide	SO2	1	-
Toluene	C7H8	1	10
Trichloroethylene	C2HCL3	10	-
Vinyl chloride	VCM	1	-
Xylene	C8H10	1	10

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

Note 2) Alarm accuracy, response time etc. are confirmed with calibration gas (PH3)

Note 3) The measuring results of the gas selection are intended for guidance only. For the most accurate measurement is for calibration gas (PH3)

Type SC

Gas sensitivity level & Display

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

Gas sensitivity level can be set on 2 (Type SC) scales.
*Refer to right figures.

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

OIL & GAS CONFINED SPACE HYGIENE MINING LABORATORIES HVAC DEFENCE SHIPPING FUMIGATION

CELEBRATING 40 YEARS 1977 - 2017