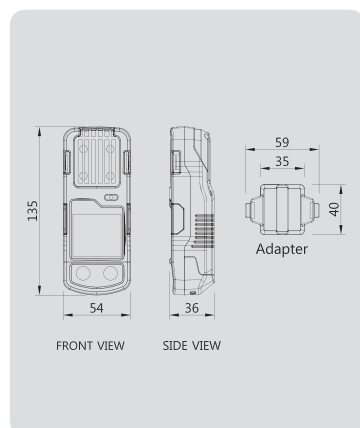


# Portable Multi Gas Detector SP12C7

## Explication and Features

SP12C7 is an united gas detector measuring four (4) major gases, which result the most of the industrial accidents, to protect workers from the disasters caused by the oxygen deficiency, toxic gas poisoning and gas explosion. Measure continuously four (4) gases (O<sub>2</sub>, CO, H<sub>2</sub>S and Combustible Gas(CH<sub>4</sub>)) and display their concentrations and raise an alarm when the risk occurs.



- Simultaneously check 4 different gases (methane, oxygen, carbon monoxide, hydrogen sulfide)
- Explosive proof structure for the safety
- Rubber material case for the shock protection
- External pump and probe installation
- Automatic light on when alarming
- Both rechargeable battery and alkaline battery are compatible
- The excellent water proof/dust proof structure
- Data logging (Under development)

## Applications

Steelworks, Petrochemical plant, Shipbuilding yard, Sewage treatment plant, Mine, Power supply works, Hermetically sealed area (manhole, tank)



## Specification

| Model                   | SP12C7   |                      |                                  |                      |
|-------------------------|--|----------------------|----------------------------------|----------------------|
| Measuring gas           | CH <sub>4</sub>  | O <sub>2</sub>       | CO                               | H <sub>2</sub> S     |
| Measuring type          | External Pump or Diffusion Type  |                      |                                  |                      |
| Measuring method        | Catalytic  | Electrochemical cell | Electrochemical cell             | Electrochemical cell |
| Measuring range         | 0~100%LEL  | 0~30%VOL             | 0~500ppm                         | 0~100ppm             |
| Sensor life time        | > 2 years  | > 18Month            | > 2 year                         | > 2 year             |
| Response time           | <15sec/90%scale  | <15sec/90%scale      | <30sec/90%scale                  | <30sec/90%scale      |
| Accuracy                | ±3%/Full scale   |                      |                                  |                      |
| Resolution              | 1%LEL  | 0.1%VOL              | 1PPM                             | 1PPM                 |
| Parameter Control       | Front 2 switch(calibration, maintenance, alarm setting)                                |                      |                                  |                      |
| Operation mode display  | Digital LCD display, LCD Backlight, Indicator LED                                      |                      |                                  |                      |
| Measuring value display | Digital LCD Display  |                      |                                  |                      |
| Alarm display           | Visual : LCD alarm display, LCD Backlight, Indicator LED Audible : buzzer(90dB @ 10cm) |                      |                                  |                      |
| Alarm level set         | Programmable within detection range  |                      |                                  |                      |
| Sampling method         | External Pump(Sampling) or Diffusion   |                      |                                  |                      |
| Flow rate               | External Pump : 0.5 Liter / min  |                      |                                  |                      |
| Mounting type           | Belt Clip  |                      |                                  |                      |
| Program set mode        | Alarm value(1,2 alarm)   |                      | Alarm value(1,2,TWA, STEL alarm) |                      |
|                         | Calibration Gas concentration Use sensor select Password Setting                       |                      |                                  |                      |
| Operating temperature   | -20℃ ~55℃  |                      |                                  |                      |
| Operating humidity      | 5 to 95% RH(Non-condensing)  |                      |                                  |                      |
| Battery power           | Rechargeable Battery AA Size 2ea(1.2Vdc 2,100mAh)                                      |                      |                                  |                      |
| Battery life time       | 500~1,000 time Rechargeable  |                      |                                  |                      |
| Material                | PC / TPE   |                      |                                  |                      |
| LCD size                | 38(W) × 35(H) mm   |                      |                                  |                      |
| Dimensions              | 54(W) × 135(H) × 36(D)mm   |                      |                                  |                      |
| Weight                  | 240g   |                      |                                  |                      |
| Option                  | SP-PUMP101 (External Pump)   |                      |                                  |                      |
| Approval                | EX iad IIC T4 IP67(KGS)  |                      |                                  |                      |