

# Detect Benzene selectively in low concentration

## Portable Benzene Monitor

**Model GX-6000**  
Benzene Select Mode

New sensor & pre-filter tube make it possible to detect benzene selectively

- **Detect Benzene selectively**

New PID sensor and pre-filter tube which remove interference gases such as toluene make it possible to detect benzene selectively.

- **Economically detect by 2 steps**

STEP 1. 「Normal mode」  
Detect VOC including benzene **without** Pre-filter tube

Only if the indication value is over the TLV-TWA

STEP.2 「Benzene select mode」  
Detect benzene selectively **with** Pre-filter tube

Use pre-filter tube only if the indication value is over the TLV-TWA, so it is possible to detect benzene economically.

- **Dust-tight and waterproof (IP67-rated)**



## Specifications

| GX-6000   |  |                         |                     |   |   |
|---|--|-------------------------|---------------------|---|---|
| Detection principle   | Photoionization type(PID) (10.0eV)   |                         |                     |   |   |
| Measurement mode  | <table border="1"> <thead> <tr> <th>Normal mode</th> <th>Benzene select mode</th> </tr> </thead> <tbody> <tr> <td>Detect VOC including benzene</td> <td>Detect benzene selectively with pre-filter tube</td> </tr> </tbody> </table>   | Normal mode             | Benzene select mode | Detect VOC including benzene                                      | Detect benzene selectively with pre-filter tube                 |
| Normal mode   | Benzene select mode  |                         |                     |   |   |
| Detect VOC including benzene                                      | Detect benzene selectively with pre-filter tube  |                         |                     |   |   |
| Gas to be detected*   | <table border="1"> <thead> <tr> <th>VOC<br/>(over 200 gases)</th> <th>Benzene</th> </tr> </thead> <tbody> <tr> <td>0~100ppm<br/>(0.00~10.00ppm : 0.01ppm)<br/>(10.0~100.0ppm : 0.1ppm)</td> <td>0~50ppm<br/>(0.00~10.00ppm : 0.01ppm)<br/>(10.0~50.0ppm : 0.1ppm)</td> </tr> </tbody> </table> | VOC<br>(over 200 gases) | Benzene             | 0~100ppm<br>(0.00~10.00ppm : 0.01ppm)<br>(10.0~100.0ppm : 0.1ppm) | 0~50ppm<br>(0.00~10.00ppm : 0.01ppm)<br>(10.0~50.0ppm : 0.1ppm) |
| VOC<br>(over 200 gases)   | Benzene  |                         |                     |   |   |
| 0~100ppm<br>(0.00~10.00ppm : 0.01ppm)<br>(10.0~100.0ppm : 0.1ppm) | 0~50ppm<br>(0.00~10.00ppm : 0.01ppm)<br>(10.0~50.0ppm : 0.1ppm)  |                         |                     |   |   |
| Detection range<br>(Minimum resolution)                           |  |                         |                     |   |   |
| Measurement method  | Detect gas continuously / Batch measurement sampling predetermined time**, 15-minute short-term exposure limits (STEL)   |                         |                     |   |   |
| Alarm setpoint  | 1st:5ppm / 2nd:10ppm / TWA : — / STEL : —<br>(Selectable<optional>)  |                         |                     |   |   |
| Flow rate   | 0.45L/min or more / Approx. 0.35L/min  |                         |                     |   |   |
| Buzzer sound volume   | 95dB(A) or higher (30cm) (with protect cover)  |                         |                     |   |   |
| Concentration display   | Digital LCD (full-dot display)   |                         |                     |   |   |
| Power supply  | Dedicated lithium ion battery unit or<br>Dedicated dry battery unit <AA alkaline dry battery x 3>***   |                         |                     |   |   |
| Continuous operation time   | Lithium ion battery unit : About 14 hours (25°C, no alarm and no lighting)<br>Dry battery unit : About 8 hours (25°C, no alarm and no lighting)  |                         |                     |   |   |
| Operating temperature & humidities                                | -20~+50°C(at a constant condition) , Below 95%RH (Non-condensing)  |                         |                     |   |   |
| External dimensions   | Approx. 70(W)×201(H)×54(D)mm (projection portions excluded)  |                         |                     |   |   |
| Weight  | Approx. 500g (When lithium ion battery unit is used) / Approx. 450g (When dry battery unit is used)  |                         |                     |   |   |
| Structure   | Compliant to IP67 level  |                         |                     |   |   |
| Explosion-proof structure   | Intrinsically safe explosion-proof structure (Exia II CT4X)  |                         |                     |   |   |
| Certifications  | ATEX, IECEx, TIIS, CE Marking  |                         |                     |   |   |
| Functions   | LCD backlight, data logger, peak display, log data display, multi-language display, LCD display rotate, LED light, Panic alarm function, Man-down alarm function****   |                         |                     |   |   |

\* GX-6000 can detect maximum six gases simultaneously. See the catalogue about gases to be detected other than VOC.

\*\* Measuring time differs depending on temperature. (Example) 20~30°C : 45 seconds

\*\*\* To meet the requirements for explosion-proof performance, use the batteries specified in the certification of explosion-proof electrical equipment.

\*\*\*\* Normally the man-down alarm function is set to OFF and unavailable. To use this function, please contact RIKEN KEIKI.

## Accessories

|          |  |   |   |   |   |   |  |   |   |   |
|----------|--|---|---|---|---|---|--|---|---|---|
| Standard |  or |   |  |   |  |  |  |  |  |  |
|          | Optional   |  |  |  |  |  |   |   |  |  |

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