

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 (over 200 gases)</th> <th>Benzene</th> </tr> </thead> <tbody> <tr> <td>0~100ppm (0.00~10.00ppm : 0.01ppm) (10.0~100.0ppm : 0.1ppm)</td> <td>0~50ppm (0.00~10.00ppm : 0.01ppm) (10.0~50.0ppm : 0.1ppm)</td> </tr> </tbody> </table>	VOC (over 200 gases)	Benzene	0~100ppm (0.00~10.00ppm : 0.01ppm) (10.0~100.0ppm : 0.1ppm)	0~50ppm (0.00~10.00ppm : 0.01ppm) (10.0~50.0ppm : 0.1ppm)
VOC (over 200 gases)	Benzene				
0~100ppm (0.00~10.00ppm : 0.01ppm) (10.0~100.0ppm : 0.1ppm)	0~50ppm (0.00~10.00ppm : 0.01ppm) (10.0~50.0ppm : 0.1ppm)				
Detection range (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 : — (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 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) 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							
									