

## Sensitive and Selective Portable Benzene Monitoring

### Overview :

Benzene (C<sub>6</sub>H<sub>6</sub>) is a natural constituent of crude oil and is one of the elementary Petrochemicals. As such it is found in Oil refineries, Petrochemical plants, Steel Works and On Board Tankers. It is also used in the manufacture of rubbers, lubricants, dyes, detergents, drugs, explosives, pesticides and as an intermediate to manufacture chemicals .

Benzene however is a powerful carcinogenic and can also cause several other illness' It is therefore important that levels are monitored where it is present.

The Problem of measuring Benzene at the low levels required to meet global exposure limits, has been that Gas sensors sensitive to Benzene have not been very selective and have been sensitive to other gases commonly present in environments where Benzene is traditionally found.



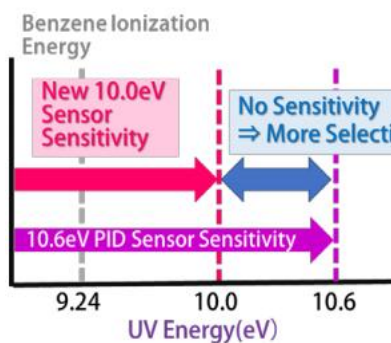
### The Solution :

The Riken Keiki GX-6000 Portable Multi gas monitor is now available with an optional Benzene specific PID sensor that has reduced sensitivity to the interference gases and a Benzene Filter attachment that filters out several other interference substances resulting in a much more Benzene sensitive and selective solution.

### Key Features :

1. Benzene select mode (simple firmware update to existing GX-6000)
2. Unique PID –Pre-Filter Tube removes :
  - Xylene
  - Ethyl Benzene
  - Toluene
  - Acetone
  - Hydrogen Sulphide
3. Benzene specific PID sensor has no sensitivity to :
  - Methane
  - Ethanol
  - IPA ( Iso-propyl alcohol )
  - Ethyl acetate
  - Ethylene
  - Iso-butane
  - Acetaldehyde
4. Much longer filter breakthrough time than competitors (35 mins for Toluene 200ppm)
5. Filter has no RoHS directive chemicals (can be disposed of in general waste)
6. Measuring Range in Benzene Select mode : 0.1 – 50ppm
7. Resolution : 0.01ppm (0-10ppm ) : 0.1ppm (10-50ppm)

#### Unique PID-Pre-Filter Tube for Benzene



#### New 10.0eV PID Sensor

