



# 6 Gas With PID IR & Super Toxics

*6 Operating modes*

*Smallest 6 gas sample draw*

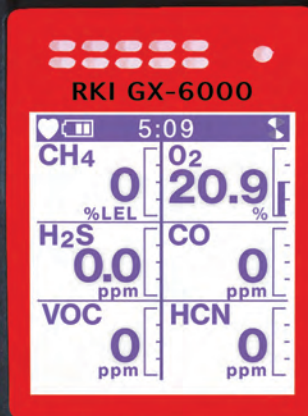
*2 Interchangeable smart sensor slots*

*4 PID options: 10.6, 10.0 & 11.7 eV lamps*

*PID library of over 600 VOC's*

*Benzene specific version*

## GX-6000



# GX-6000

## Monitor up to 6 gases:

LEL, O<sub>2</sub>, H<sub>2</sub>S, CO

2 interchangeable "Smart Sensor" slots

- PID for VOC's
- IR for CH<sub>4</sub>, HC, & CO<sub>2</sub>
- EC for NH<sub>3</sub>, Cl<sub>2</sub>, HCN, NO<sub>2</sub> & SO<sub>2</sub>

## 6 Operating modes

- Normal
- Leak Check
- Inert
- Bar Hole
- Snap Log
- Benzene Specific Mode

## PID Library of more than 600 VOC's

- 4 PID options: 10.6 eV (2 ranges), 10.0 eV, and 11.7 eV lamps
- 40,000 ppb / 6,000 ppm ranges
- Easily choose a target VOC
  - User defined VOC list of 30
  - Recently used VOC list of last 8

## Glove friendly buttons glow-in-the-dark

## Interchangeable battery options

- Lithium-ion pack operates 14 hours
  - Complete recharge in 3 hours
- Alkaline pack operates 8 hours

## 9 Languages

- English, Spanish, French, German, Italian, Japanese, Korean, Portuguese, Russian



## Alarms

- 2 Adjustable gas alarms per channel
- Man down alarm
- Panic alarm
- 4 Alarm LED's
- Audible and vibration alarms
- Trouble alarms for low flow, sensor connection, low battery, circuit error and calibration

## LED Flashlight

- On demand light source

## LCD Display

- Auto flip display
- Peak bar graphs
- Adjustable auto backlight
- Customize order of gases
- Single gas view with large font and auto sequence

## LEL protection mode

- Shields LEL sensor from damaging high hydrocarbon exposure

## Intrinsically Safe

- IECEx
- ATEX
- cCSA<sub>US</sub>

## Weather & dust resistant

- IP-67



# Specifications


| Gases & Detectable Ranges |                                |                      |   |  |  |
|---------------------------|--------------------------------|----------------------|---|--|--|
| Gas                       | Measuring Range                | Minimum Display      | Alarm Set Points                                |  |  |
| Catalytic                 |                                |                      |   |  |  |
| Hydrocarbons (CH4, std)   | 0 - 100% LEL                   | 1% LEL               | A1: 10% LEL                                     |  |  |
|                           |                                |                      | A2: 50% LEL                                     |  |  |
| Galvanic                  |                                |                      |   |  |  |
| Oxygen (O2)               | 0 - 40% Vol.                   | 0.1% Vol.            | A1: 19.5 Vol.                                   |  |  |
|                           |                                |                      | A2: 23.5 Vol.                                   |  |  |
| Electro Chemical          |                                |                      |   |  |  |
| Carbon Monoxide (CO)      | 0 - 500 ppm                    | 1 ppm                | A1: 25 ppm                                      |  |  |
|                           |                                |                      | A2: 50 ppm                                      |  |  |
|                           |                                |                      | TWA 25 ppm                                      |  |  |
|                           |                                |                      | STEL 200 ppm                                    |  |  |
| Hydrogen Sulfide (H2S)    | 0 - 100 ppm                    | 0.5 ppm              | A1: 5.0 ppm                                     |  |  |
|                           |                                |                      | A2: 30.0 ppm                                    |  |  |
|                           |                                |                      | TWA 1.0 ppm                                     |  |  |
|                           |                                |                      | STEL 5.0 ppm                                    |  |  |
| PID Sensors               |                                |                      |   |  |  |
| 10.6 Lamp                 | 600 VOC's                      | 0 - 40,000 ppb       | 1 ppb: (< 5000 ppb)<br>10 ppb: (> 5,000 ppb)    | A1: 5,000 ppb                                  |  |
|                           |                                | 0 - 4,000 ppm        | 0.1 ppm: (< 600 ppm)<br>1 ppm: (> 600 ppm)      | A2: 10,000 ppb<br>A1: 400 ppm<br>A2: 1,000 ppm |  |
| 10.0 Lamp                 | Benzene Specific               | 0.1 - 50 ppm         | 0.01 ppm (0 ~ 10 ppm)<br>0.1 ppm (10 ~ 50 ppm)  | No Alarms                                      |  |
|                           | 300 VOC's                      | 0 - 100 ppm          | 0.01 ppm (0 ~ 10 ppm)<br>0.1 ppm (10 ~ 100 ppm) | A1: 5 ppm<br>A2: 10 ppm                        |  |
| 11.7                      | High Voltage Lamp              | 0 - 100 ppm          | 0.1 ppm   | A1: 5 ppm<br>A2: 10 ppm                        |  |
| IR Sensors                |                                |                      |   |  |  |
| Carbon Dioxide (CO2)      | 0 - 10,000 ppm                 | 25 ppm               | A1: 5,000 ppm                                   |  |  |
|                           | 0 - 10% Vol.                   | 0.2%                 | A2: N/A<br>A1: 0.5%<br>A2: 3.0%                 |  |  |
| Methane (CH4)             | 0 - 100% LEL/<br>0 - 100% Vol. | 1% LEL/<br>0.5% Vol. | A1: 10% LEL<br>N/A                              |  |  |
| Hydrocarbons              | 0 - 100% LEL/<br>0 - 30% Vol.  |                      | A2: 50% LEL<br>N/A                              |  |  |
| Toxics (EC Sensors)       |                                |                      |   |  |  |
| Ammonia (NH3)             | 0 - 400 ppm                    | 0.5 ppm              | A1: 25 ppm<br>A2: 50 ppm                        |  |  |
| Chlorine (Cl2)            | 0 - 10 ppm                     | 0.05 ppm             | A1: 0.5 ppm<br>A2: 1.0 ppm                      |  |  |
| Hydrogen Cyanide (HCN)    | 0 - 15 ppm                     | 0.1 ppm              | A1: 5 ppm<br>A2: 10 ppm                         |  |  |
| Nitrogen Dioxide (NO2)    | 0 - 20.0 ppm                   | 0.05 ppm             | A1: 3 ppm                                       |  |  |
|                           |                                |                      | A2: 6 ppm                                       |  |  |
| Sulfur Dioxide (SO2)      | 0 - 99.9 ppm                   | 0.05 ppm             | A1: 2 ppm                                       |  |  |
|                           |                                |                      | A2: 5 ppm                                       |  |  |


| Common Specifications      |  |                                    |  |
|----------------------------|--|------------------------------------|--|
| Alarm Types                | Gas alarm  | Man-down                           | Trouble  |
|                            | Low and high adjustable  | 1st - self reset<br>2nd - latching | Low flow<br>Sensor connection<br>Low battery<br>Circuit error<br>Calibration range |
| Sample Method              | Sample draw pump, flow rate > 0.45 LPM, 40 foot hose length. Consult factory for longer lengths.   |                                    |  |
| Display                    | Digital LCD, autobacklite, peak bar display, auto display rotation, and customize order of gases   |                                    |  |
| Audible Alarm              | 95 dB at 1 foot  |                                    |  |
| Languages                  | English, Spanish, French, German, Italian Japanese, Korean, Portuguese, Russian  |                                    |  |
| Continuous Operation       | 14 hours on Lithium-ion battery pack. Complete recharge in 3 hrs. 8 hours Alkaline battery pack (3 AA size within each pack)   |                                    |  |
| Operating Temp. & Humidity | -4°F to 122°F (-20°C ~ +50°C), 0 - 95% RH non condensing   |                                    |  |
| Dimensions                 | 2.6" W x 7.8" H x 2" D (H200 x W68 x D52 mm)<br>14 ounce (400g) (with lithium ion battery pack)  |                                    |  |
| Case Material              | Dust and water resistant with IP 67 approval (exclude sample hose and probe)   |                                    |  |
| Safety Design / Approvals  | Explosion proof: IECEx , ATEX , TIIS , cCSAus<br>Explosion class :Class 1, Div. 1, Groups A, B, C, D. Ex ia IIC T4 Ga Others: CE Marking   |                                    |  |
| Standard Features          | 2 Smart sensor slots auto recognize sensor changes<br>Library of over 600 VOC's<br>User defined VOC list. Up to 30 frequently used<br>Recent VOC list for last 8 selected gases<br>Pump and circuit status indicators<br>User & station ID selection menu<br>Datalogging (interval, alarm trend, station and user ID)<br>Snap logging - on demand data logging<br>Demand zero / Auto zero<br>BUMP and CAL expiration alarm<br>Flashlight<br>IrDA communication<br>LEL sensor protection mode |                                    |  |
| Standard Accessories       | <ul style="list-style-type: none"> <li>Rubber boot</li> <li>Hand strap</li> <li>Probe with hydrophobic &amp; dust filter 3' teflon lined hose</li> <li>Benzene pre-filter tubes and holder (benzene versions)</li> </ul>   |                                    |  |
| Optional Accessories       | <ul style="list-style-type: none"> <li>SDM-6000 calibration station</li> <li>Bundles with instrument carrying case and accessories</li> <li>Flexible probes</li> <li>Filter set</li> <li>Up to 50 foot sample hoses</li> <li>IrDA cable</li> </ul>   |                                    |  |
| Warranty                   | Two years material (including sensors) and workmanship. One year for PID sensors (two months for 11.7 eV PID)  |                                    |  |


Specifications subject to change without notice

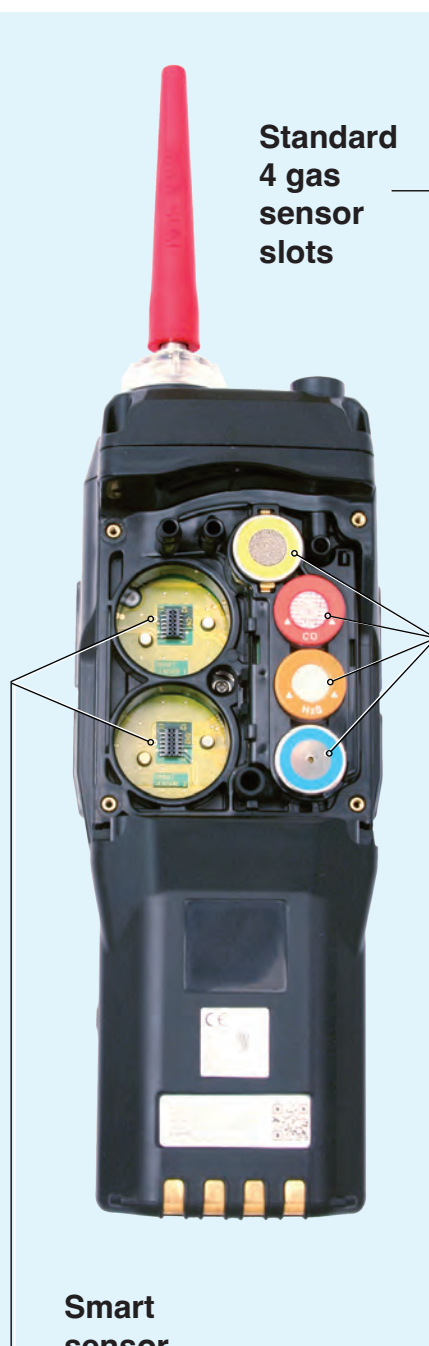
# Sensor Technologies

## Smart Sensors

| <b>Electrochemical (ESS-03DH-XXX)</b>  <b>Toxics</b> |              |   |
|---|--------------|---|
| Gas   | Range        | Accuracy                                      |
| Ammonia (NH <sub>3</sub> )  | 0 - 400 ppm  | ± 10% of reading or<br>± 5% of full scale (†) |
| Chlorine (Cl <sub>2</sub> )   | 0 - 10 ppm   |   |
| Hydrogen Cyanide (HCN)  | 0 - 15 ppm   |   |
| Nitrogen Dioxide (NO <sub>2</sub> )   | 0 - 20.0 ppm |   |
| Sulfur Dioxide (SO <sub>2</sub> )   | 0 - 99.9 ppm |   |
| Monitor a wide variety of toxic gases. Smart plug and play sensors are auto recognized and can be remotely calibrated.                |              |   |

| <b>Photo ionization Detection (PID Lamp)</b>  <b>VOC's</b> |                |                                |
|---|----------------|--------------------------------|
| Gas   | Range          | Accuracy                       |
| 10.6 eV<br>600 VOC's  | 0 - 40,000 ppb | ± 10% of reading,<br>± 1 digit |
|   | 0 - 6,000 ppm  |                                |
| 10.0 eV<br>Benzene Specific   | 0.1 - 50 ppm   |                                |
| 300 VOC's   | 0 - 100 ppm    |                                |
| 11.7 eV<br>High Voltage Lamp  | 0 - 1,000 ppb  |                                |
| Monitor low ppm VOC gases.  |                |                                |

| <b>Infrared</b><br><b>(DES-3311-1/-2/-3/-4)</b>   |            | <br><b>CO2</b><br><b>CH4</b><br><b>HC</b> |  |
|---|------------|--|--|
| <b>Gas</b>  | <b>P/N</b> | <b>Range</b>   | <b>Accuracy</b>  |
| <b>Carbon Dioxide</b><br><b>(CO<sub>2</sub>)</b>  | -4         | 0 - 10,000 ppm   | <b>± 5% of</b><br><b>reading or</b><br><b>± 2% of full</b><br><b>scale (†)</b> |
|   | -1         | 0 - 10 % Vol.  |  |
| <b>Methane (CH<sub>4</sub>)</b>   | -3         | 0 - 100% LEL<br>0 - 100% Vol.  |  |
| <b>Hydrocarbons</b>   | -2         | 0 - 100% LEL   |  |
|   |            | 0 - 30% Vol.   |  |
| <b>Monitor combustible gases in inert environments.</b><br><b>Monitor wide range of CO<sub>2</sub>.</b> |            |  |  |





Standard  
4 gas  
sensor  
slots



Smart  
sensor  
slots

Note: (†) = Whichever is greater

## Standard 4 Gas

| <b>Catalytic<br/>(NC-6264A)</b>  |  |  |  | <b>LEL</b>                                   |
|--|--|---|--|--|
| Gas  |  | Range   |  | Accuracy                                     |
| Hydrocarbons<br>(CH <sub>4</sub> )<br>standard                               |  | 0 - 100% LEL  |  | ± 5% of reading or ±<br>2% of full scale (†) |
|  |  | Leak Check  | 0 - 500 /<br>1,000 /<br>2,000 /<br>5,000 ppm<br>(CH <sub>4</sub> ) |  |
| ± 5% of reading or ±<br>2% LEL (LEL mode<br>only) (†)                        |  |   |  |  |
| Methane is the standard configuration. Other<br>combustible gases available. |  |   |  |  |

| <b>Galvanic (OS-BM2)</b>  <b>O<sub>2</sub></b> |              |                       |
|--|--------------|-----------------------|
| Gas  | Range        | Accuracy              |
| Oxygen (O <sub>2</sub> )   | 0 - 40% Vol. | ± 0.5% O <sub>2</sub> |
| A specific electrochemical sensor for oxygen monitoring.   |              |                       |

| Standard Electrochemical   |             |  |
|--|-------------|--|
| ES-1821  |             | ES-1827i   |
|  CO |             |  H <sub>2</sub> S |
| Gas  | Range       | Accuracy   |
| Carbon Monoxide (CO)   | 0 - 500 ppm | ± 5% of reading<br>± 2 ppm (†)   |
| Hydrogen Sulfide (H <sub>2</sub> S)  | 0 - 100 ppm |  |
| Extra long-life CO and H <sub>2</sub> S sensors.   |             |  |





## CONFINED SPACE ENTRY

- Monitor LEL, O<sub>2</sub>, CO, and H<sub>2</sub>S
- Internal sample pump
  - ◊ *Pull samples up to 40'*
  - ◊ *Maintain steady sample flow to sensors*
- Audible, visual and vibration alarms
  - ◊ *3 Ways to communicate with workers*
- Ideal for refinery applications
- Man down alarm
- Panic alarm
- Optional sensors for toxic gases and VOCs



## VOC MONITORING

- Four PID sensors are available
  - ◊ 10.0 eV
  - ◊ 10.6 eV (low or high range)
  - ◊ 11.7 eV.
- PID library of over 600 VOCs (10.6 eV lamp)
- Any combination of two PID sensors can be installed.
- Easily switch target VOC from user or recent used list
- Benzene-specific version is available
- Pre filter tube for detecting low levels of benzene.



## LEAK INVESTIGATION

- Provides ppm detection of combustible gas
- Leak check with changing blink / pulsing rate
  - ◊ *LED's and alarm tones increase in frequency as gas concentration increases*
- Leak check mode displays both CO & combustible levels
- Audible alarm silence
  - ◊ *Perform leak investigations without alarming residents*
- Barhole mode for tracking leak migration



## FIRE INDUSTRY

- Monitor low ppm levels of dangerous gases like ammonia, hydrogen sulfide, and carbon monoxide commonly found in methamphetamine labs
- Simultaneously monitor typical confined space hazards like LEL combustibles, oxygen deficiency, carbon monoxide and hydrogen sulfide
- Find trace levels of flammables in arson investigation
- Detect carbon monoxide leaks, air quality, or strange odors confidently
- Man down alarm



# Calibration Station

SDM-6000



**Modular design — one power source for all stations**

**Connect up to 6 cylinders with the SV-3 solenoid valve**



- Stand-alone station (no PC Required)
- Charge, calibrate, bump test, and alarm test
- Included software collects calibration, bump test, alarm history, and exposure date from instruments
- Automatically power instruments on / off for scheduled calibration
- Configure GX-6000 parameters

## Optional Accessories



**Bundles with instrument, carrying case, & accessories**

**Benzene tube tube holder**



**Hose length up to 40'**



**Flexible probe**



**Authorized Distributor:**



(800) 754-5165 • (510) 441-5656  
[www.gx6000.com](http://www.gx6000.com)

World Leader In Gas Detection & Sensor Technology