

## PDS-GO Personal Radiation Detector

The **PDS-GO** is a lightweight, small, sensitive, personal gamma radiation detector, designed to meet the ANSI N42.32 & 42.33 radiation detection requirements.

This instrument has been designed using the latest “state-of-the-art” electronic components including the advanced technology of Silicon photomultiplier as a detector.

The PDS-GO boasts a measuring range from background to 500  $\mu\text{Sv/h}$  (50  $\text{mR/h}$ ) with a sensitivity of  $\leq 1,100$  cps/ $\text{mR/h}$  and is also ideal to use as a highly sensitive survey meter.

The instrument is especially useful for professionals dealing in safety and security of sensitive installations, public areas and border control. This small instrument (125 g) is easily carried on the body and is used to detect and indicate the presence and magnitude of gamma emitting radiation.



### Highly Sensitive Survey Meter Featuring twin displays using two LCD's

On the top side, while it is carried on the user belt, with clear and simple indication of presence and intensity or absence of radiation field, and with an additional on front LCD with more and complementary information to the upper LCD, to be used after pulling out the instrument from belt.



### FEATURES

- CsI(Tl) scintillation crystal for high efficiency to extended energy range
- Excellent sensitivity to ANSI source strength
- Excellent temperature stability
- Two operation modes (Detect/Search)
- Low power consumption – extended operating hours
- Instrument setup (alarm thresholds and other parameters) via USB connection to a PC using user-friendly software application.
- Record of event history
- Rechargeable battery – charging via USB connection inside the cradle
- Accessories include – protective silicon cover, belt clip, charging cradle, USB cable

## Technical Specifications

<b>Detector:</b>	CsI(Tl) crystal with Silicon Photomultiplier
<b>Measuring Range:</b>	Background to 500 $\mu$ Sv/h (50 mR/h)
<b>Energy Range:</b>	50 KeV – 1.7 MeV
<b>Energy Response:</b>	Better than 20% for whole energy range
<b>Sensitivity (<sup>137</sup>Cs):</b>	$\leq 110$ cps/ $\mu$ Sv/h ( $\leq 1,100$ cps/mR/h)
<b>Detection Capability:</b>	0.5 $\mu$ Sv/h (50 $\mu$ R/h) above 0.25 $\mu$ Sv/h (25 $\mu$ R/h) background with 95% confidence in less than 2 seconds
<b>Time To Alarm:</b>	<2 seconds
<b>Alarm indication:</b>	Adjustable: Visual, Vibration, Audible (1000–4000 Hz, 85 dB(A) at 30 cm)
<b>Battery Life:</b>	Li-ion 3.7V rechargeable battery, 120h power under normal conditions.
<b>Operating temperature:</b>	-20°C to + 50°C (Detection of <sup>241</sup> Am in the whole temperature range)
<b>Humidity:</b>	Up to 93% at 35 °C
<b>EMI</b>	Meets ANSI 42.32/33
<b>Protection Rating:</b>	IP-64
<b>Dimensions :</b>	99mm x 55mm x 24mm (4" x 2" x 1" )
<b>Weight:</b>	125 g with batteries
<b>Communication:</b>	via PC based user interface software (mini USB connection)

### Accessories

**Silicon Casing, included**

**Mini USB cable, included**

**Cradle**, supplying power and communications enhances the instrument to become a highly sensitive fixed area monitor

**Ordering No: BAK- 4061 ( $\mu$ Sv/h)**  
**BAK- 4060 ( $\mu$ R/h)**



ROTEM INDUSTRIES reserves the right to change specifications without advance notice

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