



Personal Radiation Alarm

KOWOTONE 3

Personal Protection

Features

- visual and acoustic warning function
- rising pulse rate with increasing dose rate
- continuous alarm above 250 $\mu\text{Sv/h}$
- powered by a single AA alkaline battery
- battery warning
- self-test during power-up



Technical Data

radiation detected	Gamma and X-ray
energy range	50 keV ... 1.3 MeV
detector	Geiger-Mueller tube
sensitivity	10 $\mu\text{Sv/h}$
dose rate alarm threshold	> 250 $\mu\text{Sv/h}$
acoustic warning signal	> 82 dB
red LED light	indication of pulses
green LED light	power-up phase
ready signal	acoustic, 1 bleep/90 sec
powered by battery	1.5V alkaline AA (LR6)
operating time at background radiation	2 years
ambient background radiation	~ 1 pulse/min
temperature range	-20 °C to +40 °C
housing	plastic
dimensions	72 x 56 x 18 mm
weight incl. battery	65 g



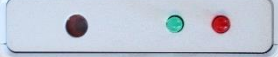
pocket clip on the back

Operating Instructions

The KOWOTONE 3 personal radiation detector is a reliable warning instrument for ionizing radiation. Gamma and X-ray radiation is detected by the integrated Geiger-Mueller (GM) tube.

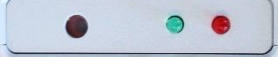
Ionizing radiation is indicated both visually and acoustically by a red LED and a buzzer. With increasing dose rates the warning signals become more frequent. The dose rate warning threshold for the continuous alarm is factory set to 250 $\mu\text{Sv/h}^*$ (25 mR/h*).

Exceeding the alarm threshold is indicated by a continuous light and a loud continuous tone: Please then leave the radiation field immediately until the continuous alarm stops!

	Radiation detection signal	Indication
	flashing intermittently	low radiation
 	bleeping intermittently	dose rate $>10 \mu\text{Sv/h}^*$
 	continuous alarm tone	dose rate $>250 \mu\text{Sv/h}^*$

The KOWOTONE 3 is simply enabled by inserting the battery. During power-up, a self-test is performed. After that, a ready signal every 90 seconds indicates that the warning function is active. To check the device, remove the battery and wait at least 15 seconds before reinserting the battery.

When low battery warning is given, insert a new 1.5 volt AA alkaline battery.

	Operating signal	Indication
		1x power-up phase, unit self-test OK
 		1x battery check OK
 		∞ low battery → replace battery
 		∞ wrong battery type
		∞ misplaced battery
 		∞ defective GM tube

* Important note: The nominal dose rate values are subject to variations and tolerances. This monitor is not a measuring device. It is not designed for dosimetric measurement tasks.