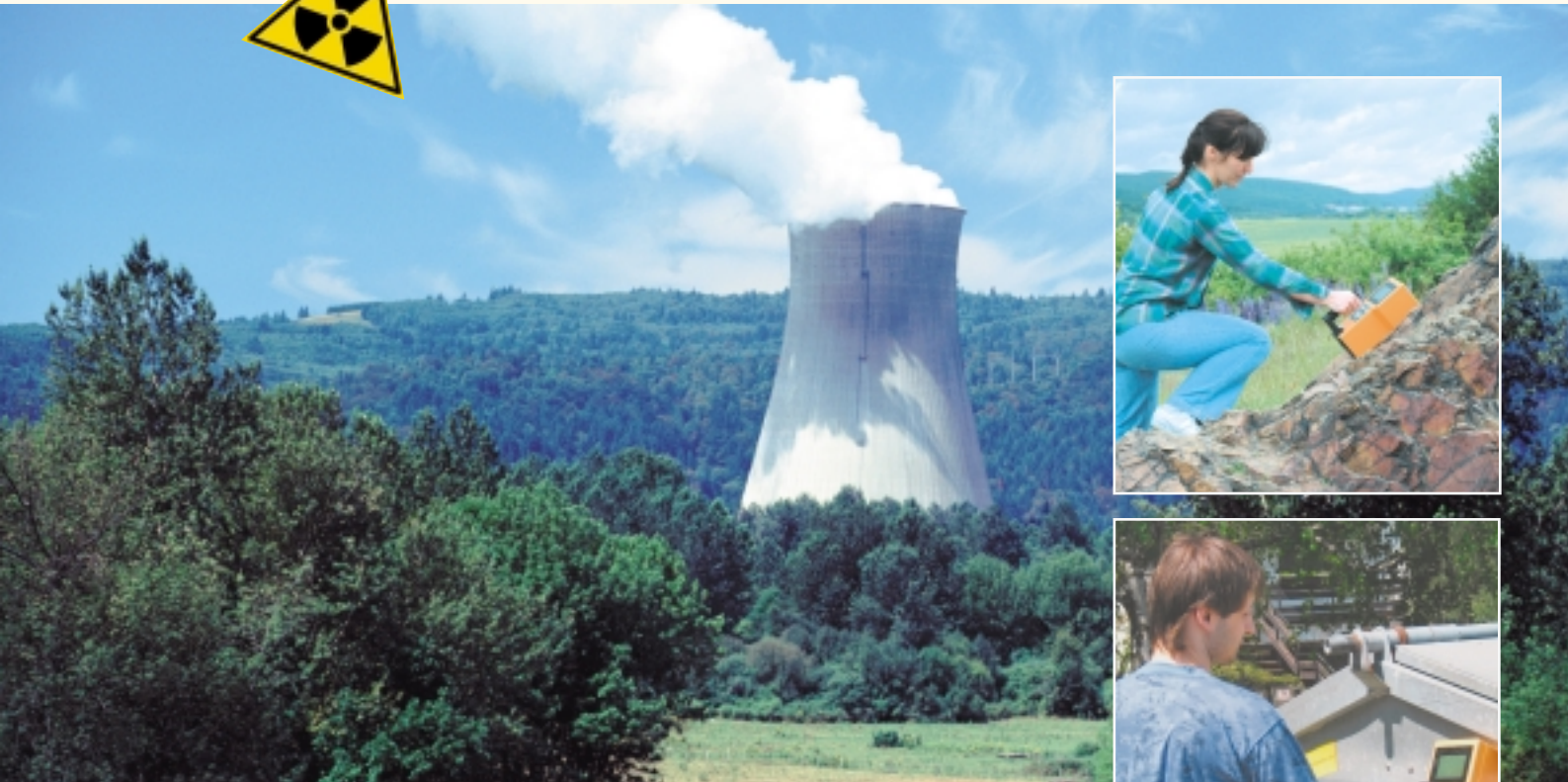


# SGR SCINTILLATION GAMMA RADIAMETER



**0.2 s response time**

**Acoustic pitch response**

**64 point histogram**

**Simple operation**

**Long battery life for 3-6  
working days**

#### **Applications:**

SGR scintillation gamma radiometer serves for fast and sensitive indication of gamma-ray sources.

Its main applications are:

- uranium ore prospecting
- search for hidden artificial emitters
- industrial and health purposes.



# SGR - Scintillation Gamma Radiometer

**SGR** represents a handheld, ruggedized and very simply operated instrument for field and industrial use. This unit is equipped with an acoustic output (pitch response) and 64 values histogram. These features are completed with watertightness and resistance against mechanical shocks. The unit is supplied from standard, exchangeable, single use or rechargeable C cells.

SGR covers two basic ranges of measurements:

- quick and selective searching for radioactive sources with fast response, acoustic signalization and histogram of 64 measured values
- radiometric measurements (dose rate) with the support of point and continuous measurements

The dose rate measurement is based on evaluation of pulses collected in the energy ranges from 50 keV or 400 keV to 3000 keV according to recommendation of IAEA (International Atomic Energy Agency).

## Technical specifications

### Detector:

- NaI(Tl), dia 51 x length 51 mm (6 in<sup>3</sup>)

### Sampling:

- 0.2 to 120 s, standard or fast response

### Measuring range and resolution:

- up to 250  $\mu$ Gy/h, resolution 0.1 nGy/h
- up to 250000 cps, resolution 0.1 cps
- 50 to 3000 keV or 400 to 3000 keV

### Alarm:

- threshold setting from 50-2000 nGy/h
- variable frequency from 250 to 4000 Hz depending on the measured dose rate (upper frequency corresponds with 10-time multiple of the actual threshold)

### Display:

- large graphical LCD display 320x240, white backlight

### Power supply:

- 3 pcs of C cells (single use or rechargeable – NiCd, NiMh), working time 3 – 6 days

### Casing:

- waterproof with increased resistance against mechanical damage and shocks

### Dimensions & weight:

- 130x115x290 mm, 3.4 kg

### Ambient temperature:

- -20 to +60 °C

### Standard accessories:

- Transport case
- Carrying belt
- User Guide



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