

# Manual

## Dosimeter radiometer

### "Pripyat" RKS 20/03

## Gamma and Beta radiation

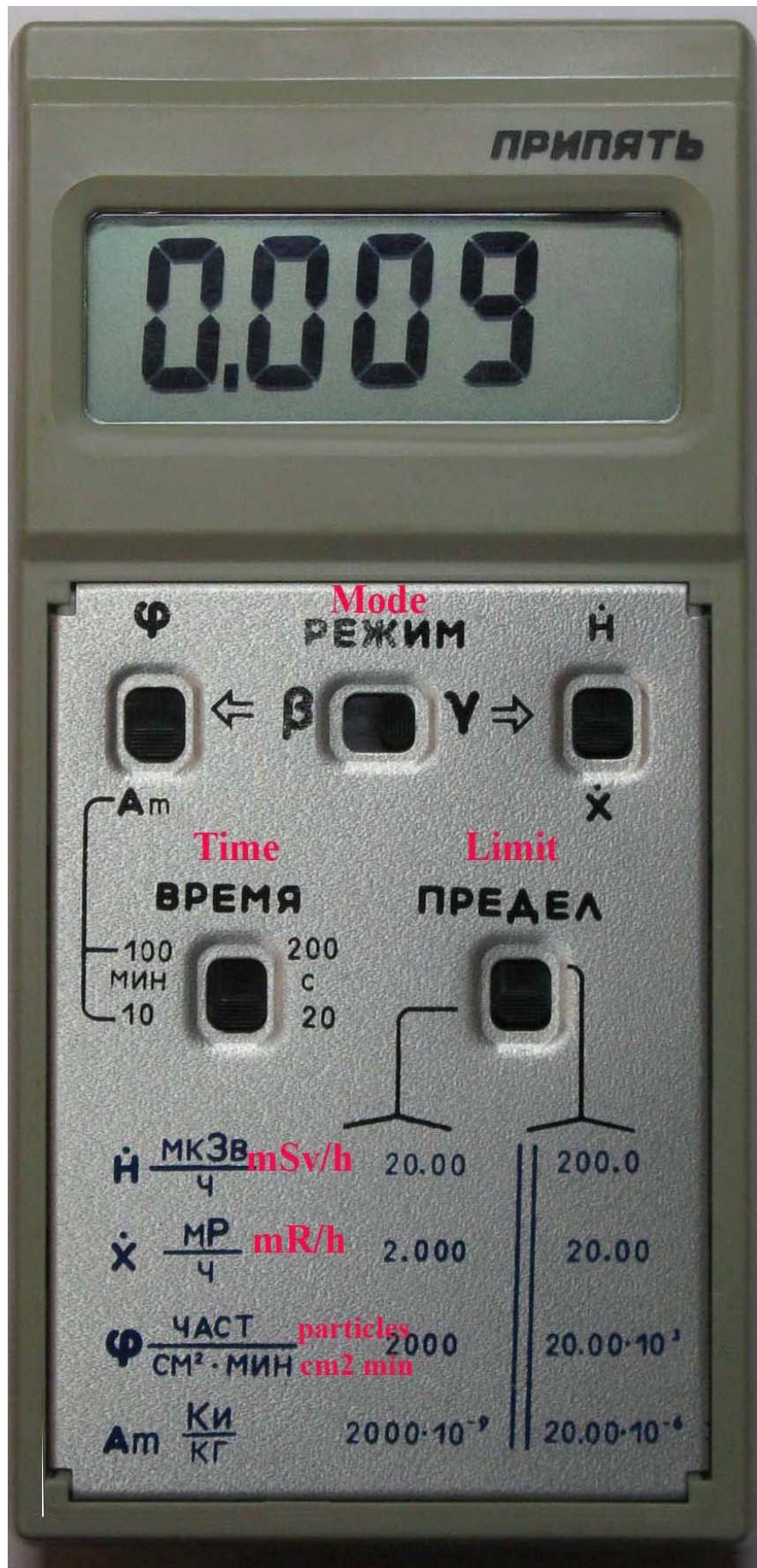


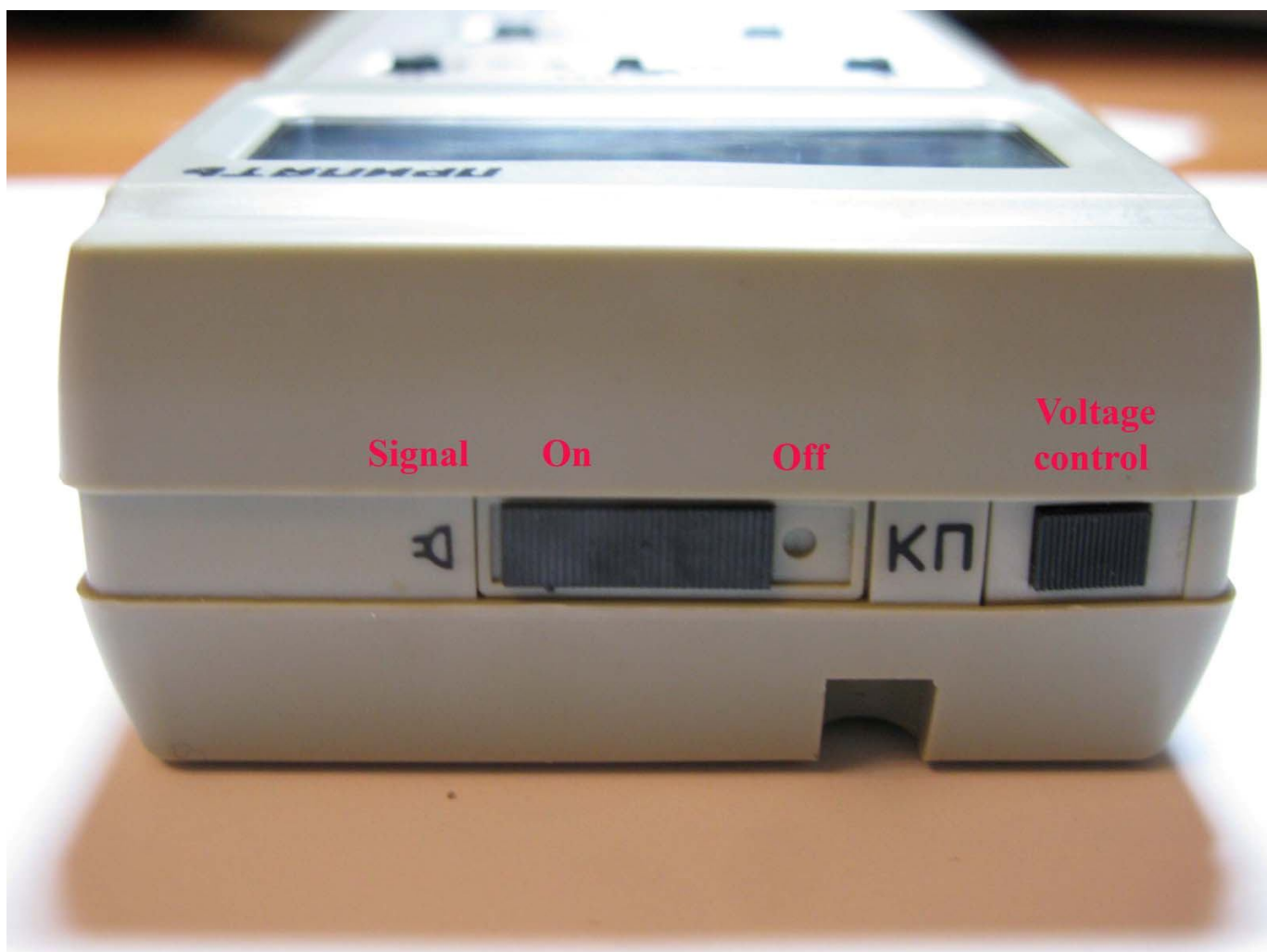
**The radiometer is designed for** monitoring the radiation situation in places of residence, residence and employment of the population.

**With the help of the radiometer can measure:**

- The value of gamma-ray background;
- Contamination by radioactive substances of residential, industrial buildings, buildings, household items, clothing and adjacent territory, the soil surface, vehicles;
- The content of radioactive substances in food.

# Appearance of the radiometer







## Description

- **Power (Питание)** - power switch radiometer;
- **Voltage control (КП)** - button controls the supply voltage;
- **Mode (Режим):**

**γ- β:** switch the form of ionizing radiation:

γ - gamma radiation

β - beta radiation

**H-X:** Switch the form of the measured dose rate of gamma radiation:

**H-** equivalent dose rate, mSv / h (мкЗВ/ч), micro-sievert per hour

**X** - exposure dose rate, mR / h (мР/ч), micro-roentgen per hour

**φ-Am:** Switch the form of the measured value at measurement of beta-radiation:

**φ** - flux density, particles/ min...cm<sup>2</sup> (част/мин...см<sup>2</sup>), particles per minute per square centimeter

**Am** - specific activity, Ci/kg (Ки/кг), curie per kilogram

- **Limit (Предел):** Switch Range:

**Low position** - sensitive subrange;

**Top position** - subrange in which the sensitivity of the radiometer is 10 times lower.

- **Time (время):** Switch settling time reading.

**20, 200 S (с), seconds**

**10, 100 min(мин), minutes**

**Low position** - 20 seconds - the minimum settling time of the measurements of dose rate of  $\Upsilon$  (gamma radiation) and flux density  $\Phi$ ;

10 minutes - the minimum settling time of the measurements of specific activity  $A_m$

**Top position** - Response time increases 10 times: 200 seconds and 100 minutes

- **D=** - switch sound.

# Specifications:

- The value of measuring ranges exposure dose of gamma-and X-rays

0.01 ... 19.99 mR / h

- Equivalent dose of gamma and X-rays

0.1 ... 199.9 mSv / h

- Density of beta radiation

10 ... 19 999 hr / cm<sup>2</sup> \* min

- Limit of the main relative error (gamma / beta)

± 20% / ± 25%

- Operating ambient temperature

-20 ... +40 ° C

- Power

Battery 9v 6F22 or 220v Power Supply ( Not included!)

- Weight

0,25 kg

- Dimensions

145mm 73 mm 37 mm