Scientific Production Company “Doza”

Radon monitors

Radiation control equipment

Доза®

RRA-01M-01: Radon monitor

- Measurement of radon concentration:
- In the air
- In the water using with sampling device POU-04
- In the soil air using sampling device POU-04
- Measurement of radon flux density from the soil surface using sampling device POU-04.
- Built-in air sampler 1l/min
- Field operation

Physical characteristics

Detector:

- Silicon

Measurement range:

- Direct measurement:
  Radon concentration in the air: 20 ÷ 20000 Bq/m^3
- Measurement with sampling:
  Radon concentration in the air: 30 ÷ 30000 Bq/m^3
  Radon concentration in the water: 6·10^3 ÷ 8·10^5 Bq/m^3
  Radon concentration in the soil air: 10^3 ÷ 10^5 Bq/m^3
  Radon flux density from the soil surface: 20 ÷ 1000 Bq/(m^2·s)

Measurement duration:

- 3 ÷ 20 min

Temperature range:

- +5°C ÷ 50°C

RRA-01M-01

Electrical characteristics

Power supply:

- 220 V, 50 Hz
- Rechargeable battery type GP160CK

Interface:

- RS 232
- Continuous operation from battery: not less 20 hours

Mechanical characteristics

Overall dimensions, weight:

- 290×155×200 mm, 3.5 kg

Reference standards:

- IEC 61577

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RRA-01M-03: Radon and Toron monitor

Measurement of radon and toron concentration:

- In the air
- In the water using with sampling device POU-04
- In the soil air using sampling device POU-04
- Measurement of radon flux density from the soil surface using sampling device POU-04
- Measurement of environmental parameters: temperature, humidity and pressure
- Built-in air sampler 1l/min
- Field operation

Physical characteristics

Detector:

- Silicon

Measurement range:

- Direct measurement:
  Radon (Rn-222): 20 ÷ 20000 Bq/m^3
  Toron (Rn-220): 20 ÷ 20000 Bq/m^3
- Temperature: 5 ÷ 50°C
- Pressure: 700 ÷ 820 mmHg (930÷1090 mbar)
- Relative humidity: 30 ÷ 90%
- Measurement with sampling:
  Radon concentration in the air: 30 ÷ 30000 Bq/m^3
  Radon concentration in the water: 6·10^3 ÷ 8·10^5 Bq/m^3
  Radon concentration in the soil air: 10^3 ÷ 10^5 Bq/m^3
  Radon flux density from the soil surface: 20 ÷ 1000 Bq/(m^2·s)

RRA-01M-03

Measurement duration:

- 3 ÷ 20 min

Temperature range:

- +5ºC ÷ 50ºC

Electrical characteristics

Power supply:

- 220 V, 50 Hz
- Rechargeable battery type GP160CK

Interface:

- RS-232
- Continuous operation from battery: not less 20 hours

Mechanical characteristics

Overall dimensions, weight:

- 290×200×155 mm, 4 kg

Reference standards:

- IEC 61577

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RAA-10: Radon/Toron Decay products monitor

- Measurement of radon/toron decay products concentration
- Definition of radon/toron equilibrium equivalent concentration
- Definition of equilibrium factor
- Definition of radon/toron decay products potential energy
- Automatic filter movement
- Programmable control of pumping, filter movement, measurement
- On-line alpha spectrometry

Physical characteristics

Detector:

- Silicon

Measurement range:

- Radon equilibrium equivalent concentration: 10 ÷ 20000 Bq/m^3
- Toron equilibrium equivalent concentration: 0,5 ÷ 10000 Bq/m^3

Measurement duration:

- 2 ÷ 5 min

Temperature range:

- +5 ÷ 35 °C

RAA-10

Electrical characteristics

Power supply:

- 220V, 50 Hz
- Rechargeable battery

Interface:

- RS-232

Mechanical characteristics

Overall dimensions, weight:

- 290×110×200 mm, 3,5 kg

Reference standards:

- IEC 61577

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POU-04: Radon sampling kit

- Air sampling for radon measurement at low temerature, high humidity
- Soil air sampling for radon flux density measurement
- Water sampling for radon measurement

Physical characteristics

Temperature range:

- +5°C ÷ 40°C

Electrical characteristics

Power supply:

- 220 V, 50 Hz
- Rechargeable battery type GP160CK

Mechanical characteristics

Relative humidity:

- Up to 100% at 25°C

Overall dimensions, weight (in bag):

- 180×230×340 mm, 2.5 kg

POU-04

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RGA-04: Radon monitor

- Continuous automatic Radon monitoring
- Three visual alarm signals of the excess of preset thresholds
- Measurement of mean annual radon concentration in the air
- Measurement results averaging within any period of measurements
- Automated estimation of Equivalent Equilibrium Volume Activity (EEVA)
- Of the Radon Decay Products with all the results stored in the memory

Physical characteristics

Detector:
- Silicon

Measurement range:
- 2 ÷ 65000 Bq/m^3

Memory capacity:
- up to 1600 measurement results

Measurement duration:
- 1 min ÷ 200 days

Temperature range:
- +5°C ÷ 50°C

RGA-04

Electrical characteristics

Power supply:
- 220 V, 50 Hz
- Rechargeable battery

Interface:
- RS-232
- Continuous operation from battery: not less 7 days

Mechanical characteristics

Overall dimensions, weight:
- 160×180×80 mm, 1,0 kg

Reference standards:
- IEC 61577

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