

라돈검출기

# Radon Detector - Raduet

Raduet Type Radon-Thoron Combination Detector

Raduet

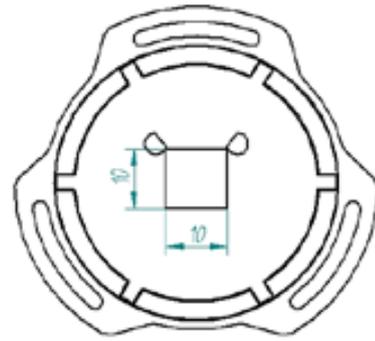


## 사용 용도 Applications

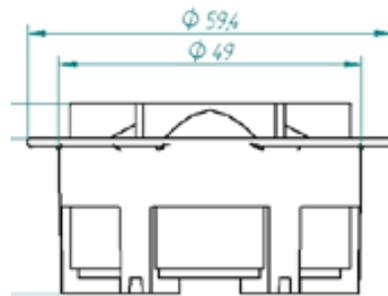
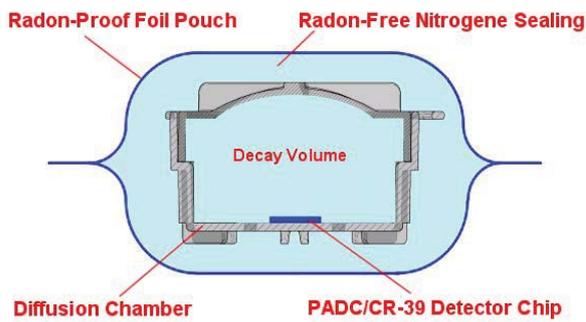
- 실내 및 작업 환경에서 라돈 및 토론을 측정하는 검출기.
- 플라스틱 필름, 셀룰로스필름 및 폴리카보네이트와 같은 고체 물질 표면에 알파 입자에 의한 미세한 방사선 손상으로 생성되는 비적을 검출하여 라돈 농도를 측정.
- 실내에서의 라돈농도 측정은 3개월 이상 장기간 측정하여 평균농도를 구하는 방식으로 사용됨.

## 제품 특징 Features

- 본 장치는 실내 공기 중 라돈방사능 측정하기 위한 검출기
- CR-39 검출소자를 가지는 수동형 알파비적검출기.
- 사용방법이 간단하고 가격이 저렴하며 외부전원이 필요 없음.
- 외부 충격에 영향을 받지 않으며, 장시간 측정 가능.
- Radon 및 Thoron 분석이 가능.
- 본 장치는 헝가리 RADOSYS사 제품으로 (주)한진이엔아이는 국내 AGENCY 협약 맺어 제품을 납품.



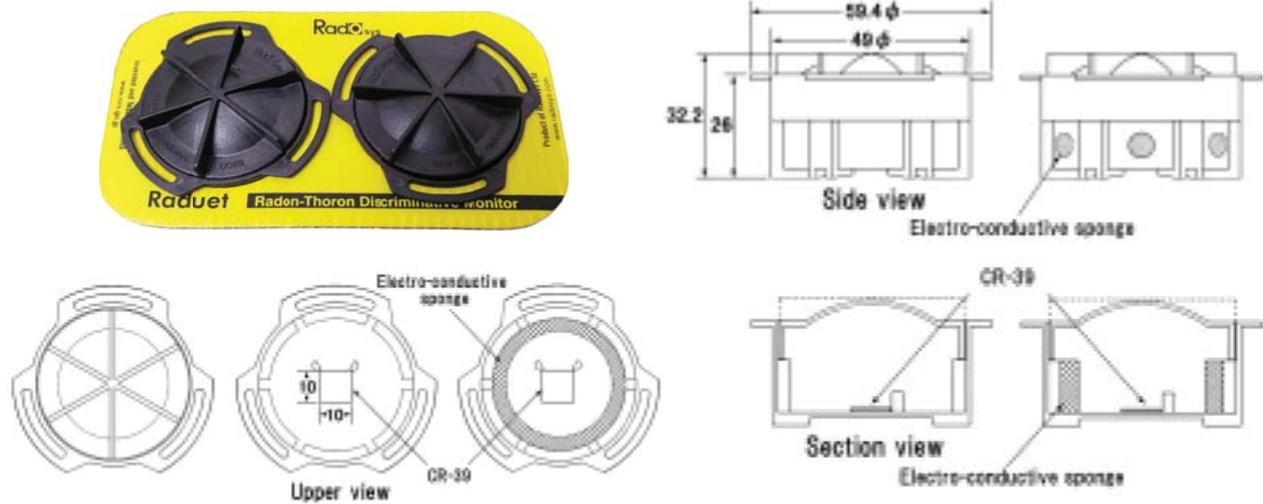
[ RSF Type diffusion Chamber. A Layout Drawing and a Panoramic View ]



[ The structure of the RSFS type, ready-m ]

<b>Application area</b>	Indoor Radon/Thoron test
Typical time of Exposure :	3 months
Monitor type :	SSNTD (Solid-State Nuclear Track Detector)
Diffusion chamber concept :	Air-gap filter
Material :	Conductive Plastics
<b>Internal Element</b>	
Chip type :	PADC/CR-39 Plastics material
Chip size :	100mm <sup>2</sup>
typical Initial Background :	0.3 track/mm <sup>2</sup>
Saturation limit :	greater than 12000 kBq.h/m <sup>3</sup> (for Radon)
<b>Detector Characteristics</b>	
Type :	Radon/Thoron Discriminating
Position :	2 chip, fixed in pot section
Filter :	Air-gap conductive sponge filter at thoron channel
Dimension :	Φ45mm X 30mm , pair of detector with holder

[ RADUET Type detector. A Layout Drawing and a Panoramic View ]



This detector type is dedicated to combination detection of radon and thoron activity at the same time. It consists of two detectors - a standard RSF type detector and a modified version, the latter with reduced response time. The main chamber is selective for the radon activity primarily. But the secondary chamber is sensitive for both radon and thoron.

A simple linear calculation separates the radon and thoron activity data results. The RADUET type detector is a result of collaborative work of NIRS, Japan and of Radosys Ltd.

**검출기 종류****Detector type****RSKS**

- This is the standard type detector for indoor Radon test. Detector chip area 100 mm<sup>2</sup>
- All detector type are sealed in radon proof foil pouch individually.
- The detector are equipped with individual serial number, ID code
- Customized logo label on the detector is included in the price
- Exact calibration data is included in the price
- Saturation Limit : greater than 12000 kBq.h/m<sup>3</sup>

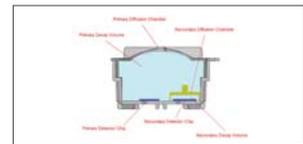
**RSGS**

This is the large area detector chip version, which is dedicated to countries with low action level regulation

- All the features are like at the RSKS type, except the followings
- Detector chip area 520 mm<sup>2</sup>
- Detector is assembled with Radosys RSF type diffusion chamber.

**RSFV**

- Double Chamber Technology
- Dedicated to Tests in environment with Unpredictable level of radon activity
- Saturation Limit : greater than 100000 kBq.h/m<sup>3</sup>

**RSFW**

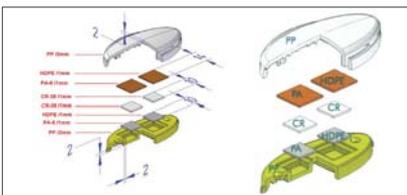
- Equipped with Water/Humidity Protection
- Dedicated to Radon test in spa, cave, mine or soil test

**RADUET**

- Radon-Thoron Discriminating Detector
- Equipped with Water/Humidity Protection
- Unique, Double-Detector Structure, according to NIRS, Japan @ Radosys Recommendation
- Dedicated to Thoron survey projects, a highlighted issue since 2005, WHO's Intl Radon Project

**RSKK**

- This type is Radon detector kit, which is dedicated to cost sensitive radon surveys
- This type is available at selected market territories only

**RSNS type Dosimetry**

- This type is individual fast neutron dosimetry detector.
- Monitoring radiation workers in environment and workplace
- Two separate dose measurement sections
- Read about the N-DOSYS track enhancement technology