The ROBIN radon sensor measures the radon in air and converts the concentration to an proportional output signal. The sensor can be connected to a fan controller, PLC or any other device suitable for analog input signals. The measurement range can be specified by the customer, however the standard sensor range is either 0-400 Bq/m³ or 0 - 4000 Bq/m³.

The sensor has high immunity to EMC and withstands the interference from thyristor controllers. The radon sensor could be assembled in any direction and could be placed in ventilation ducts as well as air handling units. It’s independent of the air flow condition and will measure correct in both laminar and turbulent airflow.

Technical data

- **Measurement principle:** Diffusion to high voltage measurement chamber
- **Detection principle:** Alpha spectrometry
- **Measurement range:** 0-400 Bq/m³ or 0-4000 Bq/m³. Possible customization
- **Maximum range:** 0-100000 Bq/m³
- **Spatial resolution:** 1 h
- **Connection:** 4-pole connector block
- **Weight:** 240 g
- **Dimension:** 60 x 80 x 45 mm (L x W x H)
- **Power supply:** +12 VDC
- **Power consumption:** Less than 50 mW
- **Temperature Range:** Storage 0 - 70ºC, Operation 0 - 60ºC

Accessories: Customized assembly flange