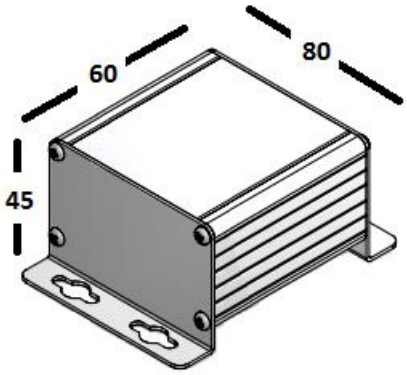
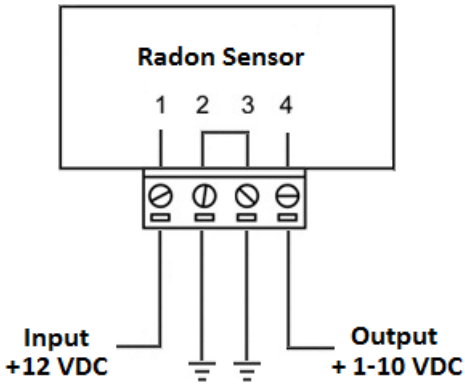
Radiansa
Consulting

ROBIN2 RADON SENSOR

The ROBIN2 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/m^3 or 0 - 4000 Bq/m^3.

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.





1) *+ 12 VDC*
2) *PE*
3) *– analog output*
4) *+ analog input*

Technical data

Measurement principle:	Diffusion to high voltage measurement chamber
Detection principle:	Alpha spectrometry
Measurement range:	0-400 Bq/m^3 or 0-4000 Bq/m^3. Possible customization
Maximum range:	0-100000 Bq/m^3
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 (10-30 V AC/DC version available)
Power consumption:	Less than 50 mW
Temperature Range:	Storage 0 - 70ºC, Operation 0 - 60ºC
Accessories:	Customized assembly flange

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