

# RADOSTAT<sup>TM</sup>



RADOSTAT<sup>TM</sup> high performance radon mitigation technology, integrated into existing building design.

## Product Overview

The first instrument to pilot any active system for radon elimination, the RADOSTAT<sup>TM</sup> continuously detects the presence of radon and activates the ventilation system during excessive concentrations beyond 150Bq/m<sup>3</sup>.

Active systems are the most effective and economic way to address excessive presence of radon in dwellings. RADOSTAT<sup>TM</sup> creates an effective anti-radon barrier in the dwelling by putting rooms in a slight overpressure. Any presence of radon is mitigated by piloting the existing ventilations.

- real-time dynamic detection
- discreet design, integrated into existing ventilation system
- economical, save 80% of energy by stopping ventilation when not required
- wireless capability
- superior sensitivity at 150 Bq/m<sup>3</sup>
- automatic, no setting is required
- 2 year warranty

Power supply	Main current 110 V > 230 V
Threshold	150 Bq/m <sup>3</sup>
Time switch	15 minutes
Size, weight	80 x 80 x 45 mm, 150 g
Consumption	<0.25 W
Temperature	-5°C to 45°C, working
Function	Pilots fan/ ventilation 2 A > 65 VA

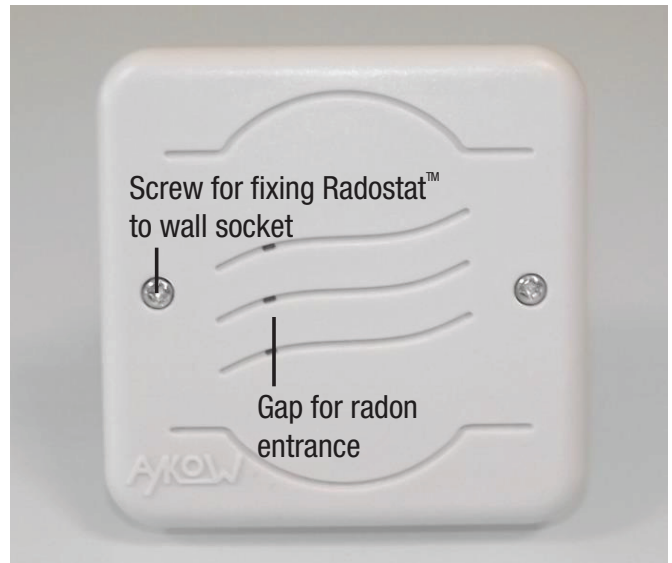
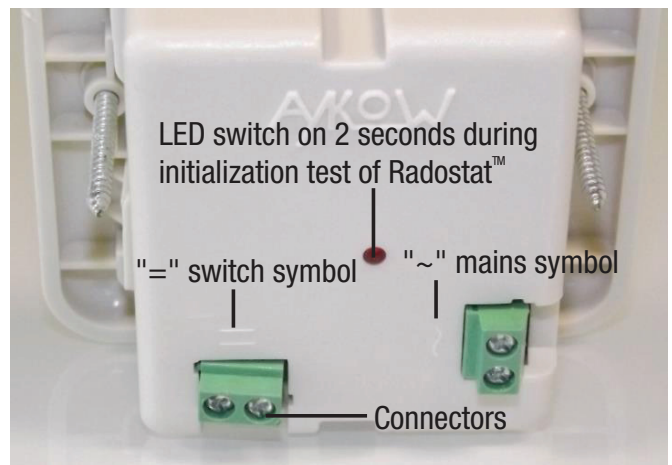
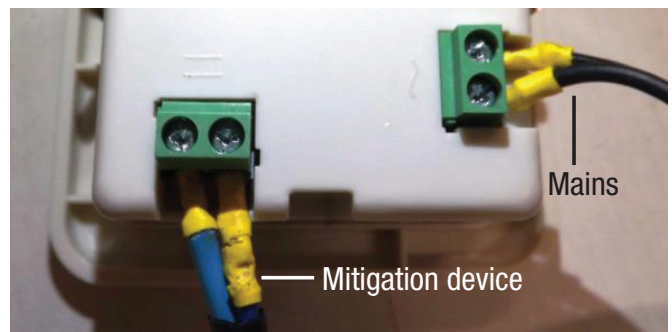


Diagram of RADOSTAT<sup>TM</sup> case front (above) and back (below).



LED is switched on 2 seconds after plugging in Radostat<sup>TM</sup>. After initialization process, LED is switched off. During a reset process of the device, LED is switched on.



# RADOSTAT<sup>TM</sup>



## Installation

RADOSTAT<sup>TM</sup> is designed to be either mounted or embedded into a wall. For proper installation, it is essential to use a square wall bracket with of least 40 mm depth. Please note that some wall socket boxes have a specific orientation for installation.

Two sets of wires must be inserted in the box. One set of two wires for the main current and the second set for the ventilation control. Ventilation control is performed by RADOSTAT<sup>TM</sup> via the locking of a relay. When radon is above the threshold, RADOSTAT<sup>TM</sup> closes the relay and the wire attached to the “=” connector are connected. Care must be taken that no currents exceeding 2 A go through the RADOSTAT<sup>TM</sup>.

When connecting RADOSTAT<sup>TM</sup> be sure that the:

- “=” symbol indicates the connection of electrical wires to the ventilation system, and
- “~” symbol indicates the connection of electrical wires to the mains.

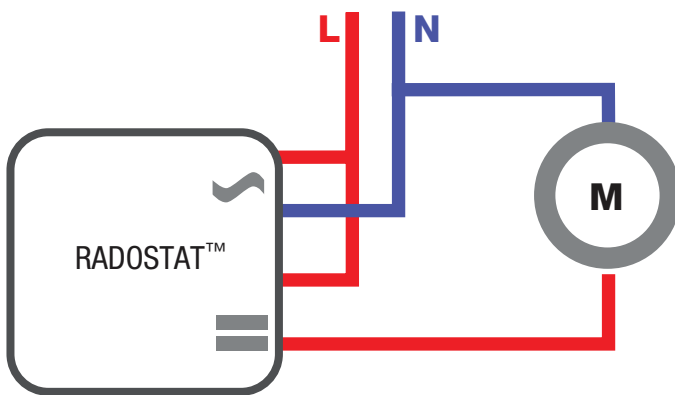


Figure 1. Direct connection.

RADOSTAT<sup>TM</sup> could be plugged into the mitigation device directly (figure 1) or via an automated home control system. Figure 2 shows the connection with a timer to optimize ventilation management. When the level of radon is above the threshold to trigger RADOSTAT<sup>TM</sup>, the relay remains locked for 20 minutes.

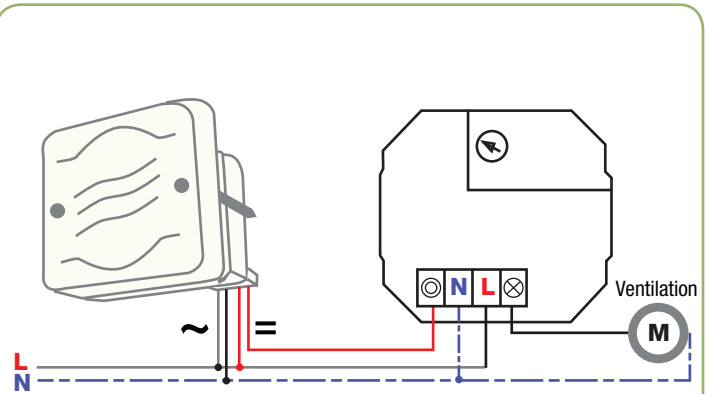


Figure 2. Example via timer.



Typical wall socket box with two sets of wires: one for the main current and the other for ventilation control.

Radon Environmental is a Canadian environmental health and building sciences company focused on reducing public exposure to radon gas. We are providing innovative radon testing and mitigation solutions to prevent radon-induced cancers.

RADOSTAT<sup>TM</sup> is manufactured by AYKOW, a French company specializing in nuclear detectors and automatic systems to mitigate radon in dwellings and public places. AYKOW received the 2010 award for innovation by the French Ministry of Research.

AYKOW and Radon Environmental are partnered to bring radon detectors and smart-driving mitigation devices to Canada.



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 Approved

