



The new **RAD8** reimagines scientific-grade electronic radon monitors with complete top-to-bottom upgrades in comparison to the venerable RAD7, the industry-standard instrument for applications including oceanography, hydrogeology, geology, health physics, environmental remediation, radon testing, metrology, and more. The following table compares the specifications of these instruments.

### RAD7 vs RAD8 Product Specifications

	 <b>RAD7</b> Electronic Radon Detector	 <b>RAD8</b> Radon + Thoron Monitor
Product Status	Legacy Electronic Radon Detector	Next-Generation Electronic Radon Monitor
Rapid Mode Sensitivity	0.25 cpm/(pCi/L) (0.0068 cpm/(Bq/m <sup>3</sup> ))	0.40 cpm/(pCi/L) (0.011 cpm/(Bq/m <sup>3</sup> ))
Precise Mode Sensitivity	0.50 cpm/(pCi/L) (0.014 cpm/(Bq/m <sup>3</sup> ))	0.82 cpm/(pCi/L) (0.022 cpm/(Bq/m <sup>3</sup> ))
Intrinsic Background	0.005 pCi/L (0.200 Bq/m <sup>3</sup> )	0.002 pCi/L (0.055 Bq/m <sup>3</sup> )
Measurement Range	0.1 - 20,000 pCi/L (4 - 750,000 Bq/m <sup>3</sup> )	0 - 67,500 pCi/L (0 - 2,500,000 Bq/m <sup>3</sup> )
Sensors	Temperature sensor, RH sensor	Temperature sensor, RH sensor, barometer
Display	LCD 2 line x 16 character alpha-numeric display	IPS full color backlit touchscreen with wide viewing angle
Control Panel	4 physical buttons	Touchscreen and physical buttons
Built-In Air Pump	1 L/min flow rate	0.6 L/min flow rate with bypass option for external pumping or flows
Power Input	11-15V DC input	11-15V DC input with waterproof connector
Battery Type	30 watt-hour sealed lead acid battery	99 watt-hour Lithium Ion battery
Battery Life	72 hours (pump running intermittently) 24 hours (pump running continuously)	72 hours (pump running intermittently) 24 hours (pump running continuously)
Data Storage	16 KB storage for 1,000 records Each record contains 23 data fields	16 GB storage for millions of records with full sensor and spectrum data at 5-minute time resolution
Computer Connectivity	<ul style="list-style-type: none"> <li>• RS-232 serial port</li> <li>• Optional serial to Bluetooth adaptor</li> </ul>	<ul style="list-style-type: none"> <li>• Wi-Fi</li> <li>• 2 USB ports (waterproof connectors)</li> <li>• COM port (waterproof connector)</li> <li>• Accessory port (waterproof connector)</li> </ul>
Case Material	High-density black polyethylene enclosure	Lockable, IP67, MIL-SPEC certified Available in Black, Graphite, Silver, Yellow
Ruggedness	Ruggedized for field use	IP67 dust- and water-proof rated, even with the lid open
Product Size	11.5" x 8.5" x 11" 29.5 cm x 21.5 cm x 27.9 cm	12.5" x 10.1" x 6" 31.8 x 25.7 x 15.2 cm
Product Weight	9.6 pounds (4.35 kg)	7.4 pounds (3.35 kg)
Shipping Weight	33 pounds (15 kg)	25 pounds (11.3 kg)