



KEY FEATURES

LOW COST

it offers the most cost-effective solution on the market, combining low unit price with minimal installation.

SMALL DIMENSION

compact design allows easy integration into space-constrained systems without compromising performance or connectivity.

PRODUCT APPLICATIONS

- ❑ Radon monitoring

DESCRIPTION

RM-6X-Sensor Radon Detection Module is a compact, high-performance radon sensor designed to measure the concentration of Radon gas¹. Its small size ensures easy integration into systems with limited space and it operates across a wide measuring range. The module is powered between 3.3V and 5V and communicates via a UART interface. To ensure optimal results, it is essential to operate in environments with a relative humidity below 90% and to protect the ventilation openings with a primary dust filter.

TECHNICAL SPECIFICATIONS

Radon Sensor

sensor type	RDM6 - SENSOR RADON DETECTION MODULE
range of measuring	3.3Bq/m ³ -37kBq/m ³ (0.09~1000pCi/L)
accuracy	±15%
sensitivity	0.2cpm/1000Bq/m ³
reliable data measurement time	6 hours
reliable data measurement time	6 hours (Radon concentration above 190 Bq/m ³) 12 hours (Radon concentration between 94~190 Bq/m ³) 24 hours (Radon concentration below 94 Bq/m ³)

Electrical Characteristics

operating current	about 2.5mA
working voltage	3.3-5V (low noise linear power supply or lithium battery is recommended)

Output Characteristics

data interface	UART (115200)
uart data interval time	10 seconds
IO level voltage	typical 3.0V (compatible with 2.8V~3.3V)

Connector Characteristics

category	wire to board needle holder
encapsulation	SMD, P=0.5mm, horizontal paste
locking	clip-on
number of contacts	4P
spacing	1.25mm