FYCDY-P30

FYCDY-P30 is based on the design of pumping electrostatic collection energy spectrum analysis method, and adopts a new generation of high sensitivity and high resolution passivation ion implantation planar silicon detector (PIPS) to quickly capture the changes in radon concentration in real time.

FYCDY-P30 adopts mainstream industrial-grade MCU control analysis and industrial-grade display control platform, combined with advanced alpha energy spectrum analysis, temperature and humidity automatic compensation and other technologies to ensure the accuracy, stability and reliability of the measurement; the equipment is simple to operate and has rich functions. Stable and reliable operation.



Detection items	Rn-222 (Radon)	Detector	PIPS semiconductor detector	
	Rn-220 (Thoron)			
Measuring range	Radon in Air : 1~1000000Bq/m³	Radon in Water : 0.002~1000.000Bq/L		
	Radon in Soil: 100~1000000Bq/m³	Exhalation rate: 0.001~60.000Bq/[m ² • s]		
Measurement method	active pumping electrostatic collection, 4096 alpha energy spectrum measurement			
Temperature	-10 ~ 50°C,	Humidity	relative humidity ≤90%,	
	accuracy ±0.2°C		accuracy ±1.8%RH	
Automatic Compensation of Temperature and Humidity				
Lower detection	as low as 1Bq/m³	Communication	USB communication interface	
limit		interface		
Sensitivity	≥0.45CPM/[pCi/L] (Po218), ≥0.90CPM/[pCi/L] (Po218+Po214)	Interface display	5-inch system screen, 800*480 high-definition display, support multi-touch, support battery power display	
Printing	built-in printer	Battery life	20 hours of continuous operation	
Host size	292mm×232mm×259mm	Weight	about 5kg for the host machine about 12kg for the accessories	

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Characteristics

1. Using pump suction electrostatic collection α energy spectrum analysis method

2. The detector adopts the advanced technology of passivation ion implantation of planar silicon (PIPS), which has high sensitivity, high signal-to-noise ratio, low leakage current, and durable.

3. Good resolution of α energy spectrum, real-time display of measurement atlas, alpha energy spectrum supports up to 4096 channels

4. Based on industrial-grade high-performance CORTEX architecture microcontroller design, using multi-task software design, high operating efficiency, stable and reliable

- 5. Industrial grade 5.0-inch touch screen, resolution 800×480, brightness adjustable
- 6. Short measurement period, fast recovery, and quick response to changes in radon concentration

7. Constant humidity measurement and temperature and humidity compensation measurement for drying tube are optional

- 8. Automatic measurement of temperature, humidity and atmospheric pressure
- 9. The instrument can be upgraded remotely or offline, which is convenient for maintenance
- 10. Built-in printer, which can print measurement results quickly and in real time
- 11. Built-in storage space can store up to 200,000 measurement and energy spectrum data after expansion
- 12. Low power consumption, built-in lithium-ion battery, support 20h battery life, expandable.

1 1 set of host machine 8 1 piece of USB 1 set of accessory for measuring Radon in 9 2 1 set of analysis software Soil 1 set of accessory for measuring Radon in 3 10 1 piece of rubber tube Water Built-in printer 1 set of accessory for measuring Radon 4 11 **Exhalation Rate** + printing paper extra 1 piece of blue color-changing silicone 5 12 1 set of digital cable+dedicated charger desiccant + 1kg extra6 5 pieces of radon daughter filter elements 13 1 piece of product manual 7 5 pieces of dust filter elements 14 1 piece of verification certificate

Standard Instrument Configuration

Note: the above is the general configuration for reference only, the actual configuration will be different according to user needs.

Accessories

1. Measuring Radon in Soil



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2. Measuring Radon Exhalation Rate

3. Measuring Radon in Water



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