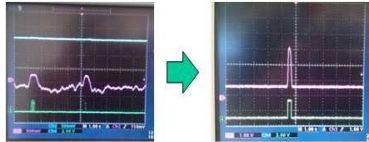


FRD1600

Fast Precision Radon Monitor

DESCRIPTIONS

FRD1600 is a fast & precision radon monitor. It's sensitivity is **3cpm/pCi/l** by 1.6liter pulsed ion chamber & FTLAB's high stable special circuit technology.



before

after

Minimum inspection time is just **10min** after measurement start. Also the accuracy is $< \pm 3\%$ at 10pCi/l. Also wide 7inch touch panel display gives user's convenience. Real time analog detection waveforms as well as Radon concentration graph would be very useful insight to investigate the radon characteristics.

SPECIFICATION of FRD1600

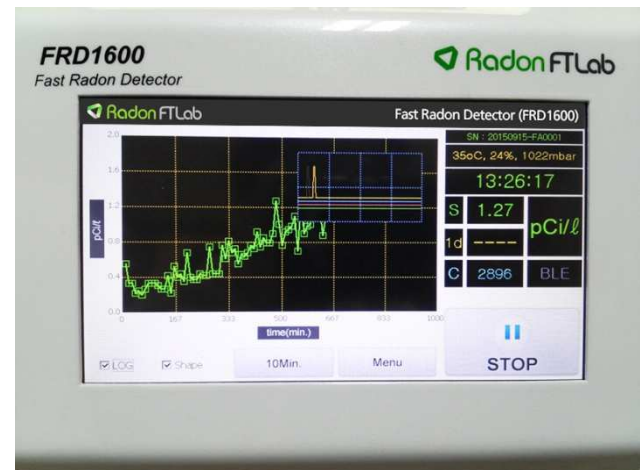
- Type : pulsed ion chamber 400cc x 4ch
- **Data saving interval : 10min, 20min, 30min, 1h**
- **Sensitivity : 3cpm/pCi/l at 10pCi/l (180cph/pCi/l)**
- Operating range : 10~40°C, RH < 90%
- Range : 0.05 ~ 99.99 pCi/l
- Precision : $< \pm 3\%$ at 10pCi/l
- Accuracy : $< \pm 3\%$ at 10pCi/l (min. error $< \pm 0.2$ pCi/l)
- Internal sensor : temp. , humidity, vibration, pressure
- Air supply : forced air fan or internal pump 0.5LPM(option)
- Power : DC 5V, 1.5A (5V DC adapter)
- Size : W205 x D320 x H190(mm)
- Data communication : RS232, Bluetooth LE
- Data log : 10 slots
 - each slot has 10min step, 10days storage capacity
- Analog out ch : 4ch , α detection waveform 0~3V
- Display : 7 inch touch panel TFT-LCD
- Weight : 3.9kg

Applications

- indoor real time radon monitoring
- Radon research



<smart phone App>

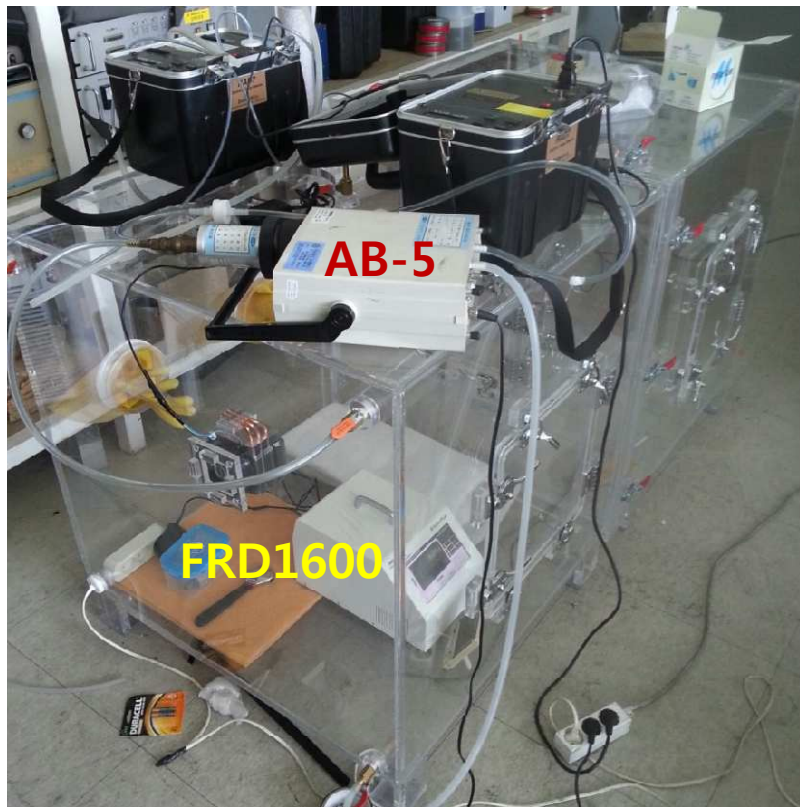


<typical front panel graph & detection pulse >

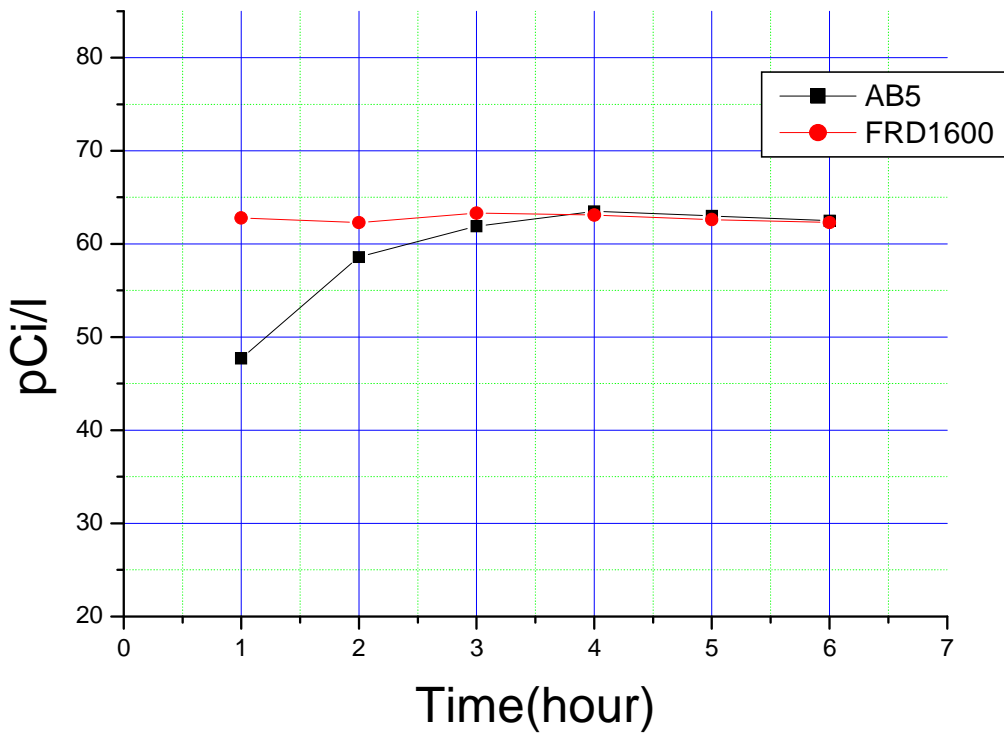
Ordering information

- contact point : sales@ftlab.co.kr
- All products are made in KOREA

Comparison of FRD1600 with AB-5 at Yonsei Univ.



Experimental setup for comparison test (2015. 09. 15)
 (AB-5 : sensitivity 1.32cpm/pCi/l, PMT type)



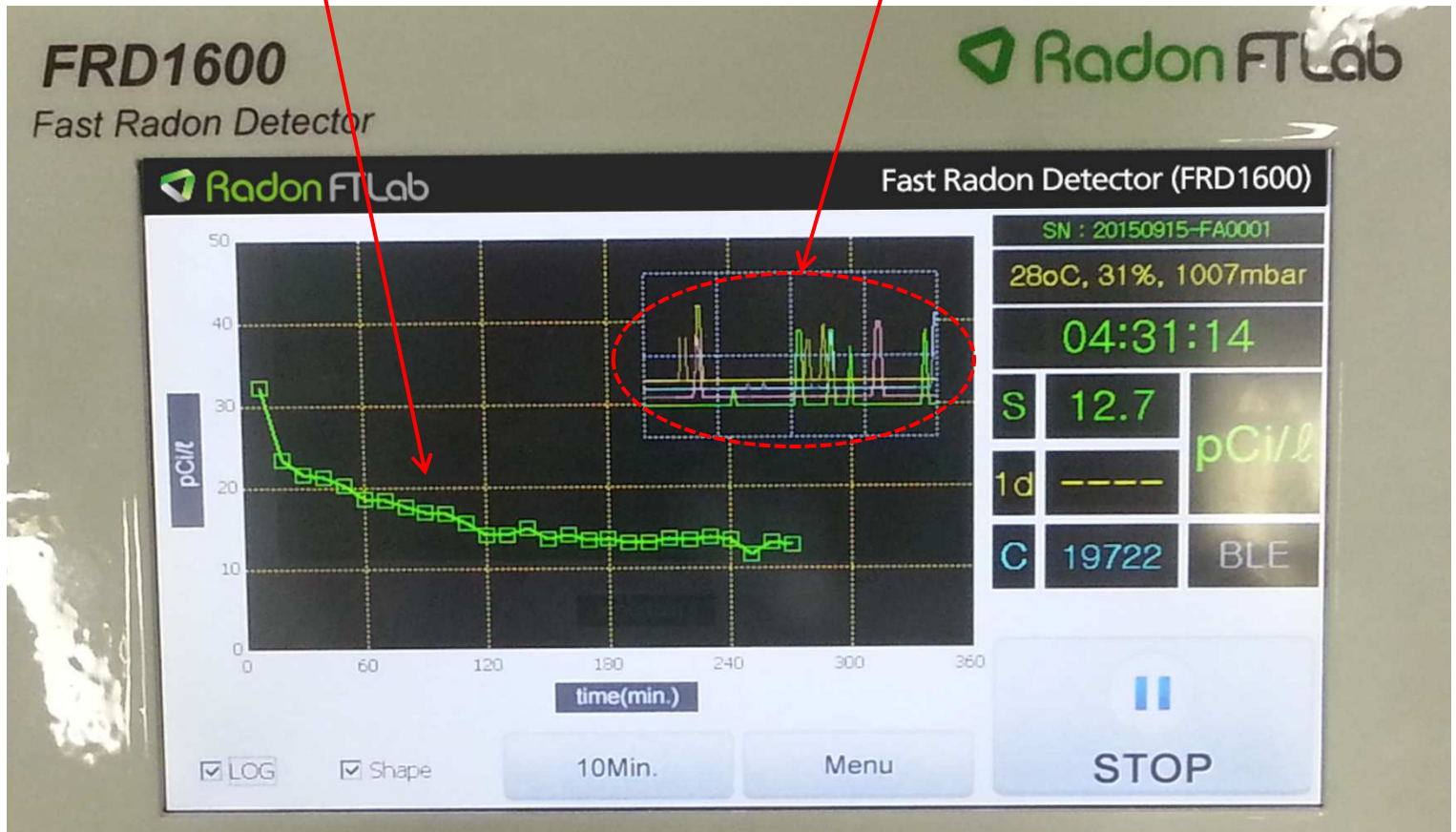
AB-5	FRD1600
47.7	62.8
58.6	62.3
61.9	63.3
63.5	63.1
63	62.6
62.5	62.3

Experimental results : FRD1600 & AB-5

Real time analog detection waveform

Radon concentration curve

Analog detection waveforms(4ch)



Experimental results of Radon Decay test

Ports of Rear Panel

Analog detection waveforms out(0~3V)



RS232 for PC