





Smart Sensor

SS05U is a sensor designed for measurements of nuclear radiations. Unlike Geiger detectors, based on tubes containing gas, this device uses silicon PIN photodiodes and it is built in a very compact case. In order to obtain a high sensitivity, the sensor is constituted by an array of 9 photodiodes, each of which has its own low noise amplifier. The sensor can be easily connected to a smartphone and all measurement tasks can be controlled through RadMeter app.



1000	Radiation plot [uSv/h]	100	Input signal
1000		80	
		60	
100	WHIII	40	
		20	
10		0 000000	
-		-20	
		-40	
0.1		-60	
		-80	
0.01	02/06/15 14:47:16	100	02/06/15 15 56:41

SS05U device can be interfaced with a smartphone through its standard USB connector. Since it is powered by USB interface, there is no battery inside.

In addition to the app visualization, indication of the intensity of the radiation will be made available through the pulses rate shown by onboard LED/speaker.





Type-C and Micro-B USB adapters allow SS05U to be interfaced with most of smartphones.



SS05U sensor is fully supported by Android app RadMeter. You can download RadMeter from Google Play Store.





Technical specifications

MEASUREMENT RANGE

Operating range: 0.05...10000 uSv/h

NOMINAL SENSITIVITY

27 CPM/uSv/h

MEASUREMENT SENSOR

- 3x3 PIN silicon photodiode array
- Especially suitable for gamma and X rays measurements

INDICATOR DEVICES

- Power On LED
- LED counting pulses
- Speaker counting pulses

POWER SUPPLY

- Self powered by USB interface (USB host mode requested)

COMMUNICATION INTERFACE

- USB interface
- Available with reversible Micro-B or Type-C USB adapter

OPERATING TEMPERATURE

0°...40°C working (RH max 85% at 25°C) 20°...60°C storage

ENCLOSURE

- Black polyammide PA6 (SS04)

DIMENSIONS

- 30 mm x 30 mm x 15 mm

WEIGHT

~13 g

Under a policy of continuous improvement, Optivelox reserves the right to make unannounced changes to the specifications of the products described in this document.

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