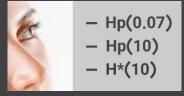


PRM2415A

MOUNTABLE









PORTABLE RADIATION
MONITORING MOUNTABLE NO
DISPLAY
MODEL PRM2415AMOUNTABLE









PORTABLE RADIATION MONITORING MOUNTABLE NO DIS-PLAY MODEL PRM2415A-MOUNTABLE

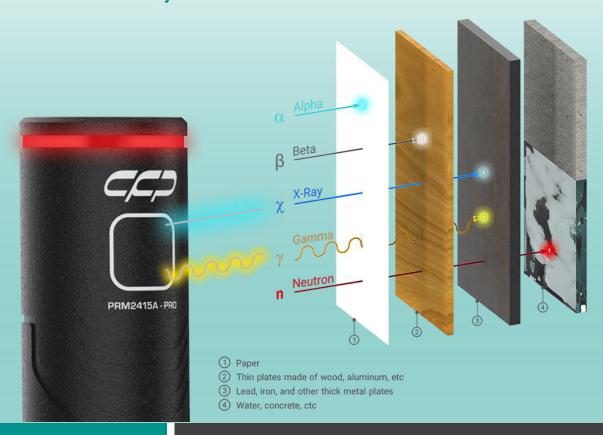
Features

- Equipped with cost effective semiconductor sensor.
- High sensitivity and uniform response.
- Low leakage current.
- Detection of gamma, X and beta radiation in six versions.
- Dose range from 0.1 uSv/h to 10mSv/h @¹³⁷Cs.
- Measurement count from 0.01 cpm to 300 kcpm.
- Monitor radioactivity permanently (over long periods of time).
- Light and sound alarm.
- Free software for windows.
- Easily configurable to ensure reliable and safe operation.
- Ready for field operation.
- Operation in a wide range of temperature.
- Compact and integrated design with low weight.

- Special rugged design, waterproof against streaming water and fully dust protected.
- Continuous operation under severe environmental conditions
- Durable and easy to use.

COST EFFECTIVE SEMICONDUCTOR SENSOR WITH HIGH SENSITIVITY

X- and Gamma-Rays



Description

The PRM2415A-Mountable manufactured by Control Farayand Pasargad (CFP) measures the amount of gamma and x radiation using a semiconductor detector. The crystal of the device is completely sealed inside its housing. This device has six versions whose information and specifications are listed below.

The PRM2415A-Mountable has a 5V DC boost processor circuit and low power consumption of 31 mW (6 mA current). CFP Company has a limited number of documents and simple samples of this test device that will be provided to the customer. The counter provided with an optional housing and a 3.5 mm jack that allows connection to mobile phones.

Further tips for measuring particles:

To measure low-energy gamma rays, the tip of the radiation sensor must be placed in front of the radiation source. Low-energy gamma rays (10-40 keV) cannot penetrate the PRM, but may be recorded through the entrance window.

Beta rays with a relatively high range in air can be absorbed by aluminum foil. High-energy beta particles can be detected through the back of the case.

Radioactive isotopes that are well detected by PRM are: $^{137}\text{Cs},$ $^{60}\text{Co},\,^{99m}\text{Tc},\,^{32}\text{P},$ and $^{90}\text{Sr}.$

It is very difficult and sometimes impossible to detect some radioactive isotopes by this device. For example, beta ray emitted by tritium has very low energy that cannot be detected even at high intensities. Also, it will not be practical to record the gamma emissions of ²⁴¹Am with PRM.

PRO Version



STD Version



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Specifications Unit: PRM2415A-MOUNTABLE Туре MOUNTABLE Version type STD STD SSDL PR0 PRO SSDL BETA BETA SSDL Particle detection Gamma and X-ray Gamma and X-ray Beta, Gamma and X-ray Input(s) Port DC +5V LEMO 5 pin (200 mA) Output(s) Output signal No output signal Control(s) port Setting configure via LEMO 5 pin (A) to USB (B) cable (set and read data) Indicator(s) Ring Green color (safe), red color (alarm) Buzzer Not included Available Available **Technical performance** Energy range (gamma 120 - 3000 keV 60 - 3000 keV 60 - 3000 keV & x-ray) Energy range (beta) Not detect Not detect > 170keV 0.1 - 10000 µSv/h Dose rate range ±20% @ ¹³⁷Cs ±10% @137Cs ±10% @¹³⁷Cs Accuracy 0 - 3500 cps Count range In normal conditions ≥1000 h Continuous run time In economy mode ≥5000 h Detector Beta, Gamma, and X-Semiconductor (Si) ray detector **Data Acquisition and Analysis** OS Built in Windows 7 or higher versions Software PRM2415A-MOUNTABLE software Measurement/spectroscopy ¹³⁷Cs **Energy calibration** Battery Not included Туре Certificate SSDL*(Iran Atomic Energy Organization cali-

bration)

^{* =} This Certificate of Compliance can be checked for validity, please refer to www.cfp.co.ir





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Application

- Security control.
- Accelerator sites.
- Nuclear industry.
- Background radiation measurement.
- Radio-nuclide half-life determination.
- Monitoring raw materials and food.
- Laboratory measurements.
- Personal protection in radiative environment

- Radiation protective measures in case of nuclear disasters.
- Educational and research centers.
- Health physics (for contamination monitoring of surfaces, clothing and objects etc.)
- Nuclear medicine laboratories.

Electrical, Mechanical and Environmental

ectrical, Mechanica	Mechanical and Environmental					
			Unit: PRM2415	A-MOUNTABLE		
Туре			МО	UNTABLE		
Version type	STD	STD SSDL	PRO	PRO SSDL	BETA	BETA SSDL
			Elec	trical		
Power required				.1W		
				anical		
dimensions (L×W×H)				35 mm × 15 mm		
Weight				98 gr		
Protection class				IP40		
Mechanical design			31.00 Envi	Unit: mm	X & Y St. DOCTOR OF THE PROPERTY OF THE PROP	
Storage temperature	10°C to 40°C					
Operating temperature	0°C to 50°C					
Relative humidity			1	0 to 80%		

Software

PC software

This sensor can be used with one of the below interfaces and the following PRM2415A-Mountable software.

- Windows based PC via USB port.
- Android based Tablet or smartphone via OTG USB port.

Input /Output (Use for software)

LEMO 5 pin (A) to USB (B)

Data Output formats

CSV, TXT, MCA, KML, XLS, LOG



Software main window (Mode 1).



Software main window (Mode 2).

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Ordering info

Standard package includes STD Version

Part #	Image	Description
PRM2415AMOUNT-STD		Portable radiation monitoring system (gamma and x-ray) standard mountable version without display model PRM2415A-MOUNTABLE-STD.
ACCE2415A001-STD	Canada Sanada Sa	CD User guide (1 Pack).
ACCE2415A002-STD	CCO	box with foam inserted (1 Pack).
ACCE2415A003*-STD	GUARANTEE	Guaranty (one year).
ACCE2415A011-STD		LEMO 5 pin (A) to USB (B) cable.

Standard package includes PRO Version

Part #	Image	Description
PRM2415AMOUNT-PRO		Portable radiation monitoring system (gamma and x-ray) professional mountable version without display model PRM2415A-MOUNTABLE-PRO.
ACCE2415A001-PRO	Canada Sanada Sa	CD User guide (1 Pack).
ACCE2415A002-PRO	CC	box with foam inserted (1 Pack).
ACCE2415A003*-PR0	GUARANTEE TYPE TO THE TOTAL TO	Guaranty (one year).

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LEMO 5 pin (A) to USB (B) cable.

Standard package includes BETA Version

Part #	Image	Description
PRM2415AMOUNT-BETA		Portable radiation monitoring system (gamma and x-ray) BETA mountable version without display model PRM2415A-MOUNTABLE-BETA.
ACCE2415A001-BETA	Canada de la Canad	CD User guide (1 Pack).
ACCE2415A002-BETA	CCO	box with foam inserted (1 Pack).
ACCE2415A003'-BETA	GUARANTEE	Guaranty (one year).
ACCE2415A011-BETA		LEMO 5 pin (A) to USB (B) cable.

Standard package includes STD-SSDL Version

Part #	Image	Description
PRM2415AMOUNT-STD- SSDL	₽	Portable radiation monitoring system (gamma and x-ray) standard mountable version without display with SSDL certificate model PRM2415A-MOUNT-ABLE-STD-SSDL.
ACCE2415A001-STD- SSDL	Charles Control of the Control of th	CD User guide (1 Pack).
ACCE2415A002-STD- SSDL	CC	box with foam inserted (1 Pack)

ACCE2415A003'-STD- SSDL	GUARANTEE	Guaranty (one year).
ACCE2415A008-STD- SSDL	CERTIFICATE	SSDL Certificate.
ACCE2415A011-STD- SSDL		LEMO 5 pin (A) to USB (B) cable.

Standard package includes PRO-SSDL Version

Part #	Image	Description
PRM2415AMOUNT-PRO- SSDL		Portable radiation monitoring system (gamma and x-ray) professional mountable version without display with SSDL certificate model PRM2415A-MOUNTABLE-PRO-SSDL.
ACCE2415A001-PRO- SSDL	Canada Sanada Sa	CD User guide (1 Pack).
ACCE2415A002-PRO- SSDL	CCP	box with foam inserted (1 Pack).
ACCE2415A003*-PRO- SSDL	GUARANTEE TYPE AREA TO THE TOTAL TOT	Guaranty (one year).
ACCE2415A008-PRO- SSDL	CERTIFICATE	SSDL Certificate.
ACCE2415A011-PRO- SSDL		LEMO 5 pin (A) to USB (B) cable.

Standard package includes BETA-SSDL Version

Part #	Image	Description
PRM2415AMOUNT-BETA- SSDL		Portable radiation monitoring system (gamma and x-ray) BETA mountable version without display with SSDL certificate model PRM2415A-MOUNTA-BLE-BETA-SSDL.
ACCE2415A001-BETA- SSDL	Carago	CD User guide (1 Pack).
ACCE2415A002-BETA- SSDL	CC	box with foam inserted (1 Pack).
ACCE2415A003*-BETA- SSDL	GUARANTEE	Guaranty (one year).
ACCE2415A008-BETA- SSDL	CERTIFICATE	SSDL Certificate.
ACCE2415A011-BETA- SSDL		LEMO 5 pin (A) to USB (B) cable.

^{* =}we stand behind our products. We guarantee your satisfaction in the quality of our instruments by providing a complete one-year warranty covering any defect of workmanship, material, and/or design. If our products do not perform, we will provide complete repair and/or replacement. for guaranty conditions, please refer to manual device (PRM2415A-MONTABLE - Manual).

USBOIC2517 modem package includes:

Part #	Image	Description
USBOIC2517 device		USBOIC2517 isolated modem.
ACCE2517001		LEMO 5 pin to USB cable.
ACCE2517002		LEMO 5 pin to LEMO 5 pin cable with desired length in meters.
ACCE2517003	Figure 12 to 10 to	CD User guide (1 Pack).

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ACCE2517004



box with foam inserted (1 Pack).

Optional accessories and services

Part #	Image	Description
ACCE2415A004	INSTALLATION	Installation.
ACCE2415A005	TRAINING	Training.
ACCE2415A006**	CALIBRATION	Re-calibration (interval) services. (1year factory maintenance suggested, not required)
ACCE2415A007		Hard case with foam insert.
ACCE2415A012		USB to USB extension cable (10, 20 and 30 meters long).

^{** =} The proper maintenance & calibration of your instruments is critical to ensure proper performance & accuracy, for Re-calibration (interval) services, please call with CFP company (021- 46045383).



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