



PERSONAL RADIATION MONITOR/DOSIMETER

PM1605 PM1605A PM1605BT PM1605A-BT



Networkable technology for First Responders, HAZMAT teams and Firefighters

This instrument is designed for use in extreme conditions of high temperature, low visibility, loud noise and multiple shocks.

The design of the instrument has two large buttons that enable a user to operate the device with protective gloves.

The unit is "network ready" for automatic data transmission via smart phones application.

PM1605 is equipped with GM tube based detector to measure dose and dose rate gamma radiation in wide energy range.

In addition PM1605A is equipped with highly sensitive CsI(Tl) scintillation detector with short response time for fast detection and localization of radioactive and nuclear materials.

Both modifications may be equipped with BLE112 Bluetooth® low energy module (**PM1605BT, PM1605A-BT**).

Features

- Special app for iOS (iPod, iPhone, iPad) and for Android mobile devices (free download is available from the App Store or Google Play for using with PM1605BT, PM1605A-BT)
- Rugged aluminium enclosure is resistant to extreme temperature up to 212 °F for 2 minutes, water immersion, including salt-water up to 3.3 ft for at least 2 hours
- Environmental protection IP68
- Operating temperature -22 up to +149 °F
- Energy range from 48keV
- Large, easy-to-read LCD display
- Option to select readings in R or Sv
- Uses standard AA alkaline battery or rechargeable battery, can be powered by USB
- Battery lifetime 6 months

Alarms

- Bright visual alarm
- Audible alarm 85 dBA at 30 cm
- Vibration alarm

**RESPONSE****LOCATION****MEASUREMENT**

USB





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SPECIFICATIONS

Detector: - PM1605, PM1605BT - PM1605A, PM1605A-BT	Geiger-Mueller tube Geiger-Mueller tube, CsI(Tl)
Dose rate measurement range	10μR/h - 999R/h (0.1μSv/h - 10Sv/h)
Dose rate accuracy	± 15%
Dose measurement	100μR - 999 R (1 μSv - 100 Sv)
Dose accuracy	± 15%
Energy range	0.048 - 3 MeV
Energy response relative to 0.662 MeV (¹³⁷Cs)	± 30%
Response time for PM1605A, PM1605A-BT (display indication of new dose rate with a relative error of ±50 %) following an increase in radiation field by 1 μSv/h produced by a ¹³⁷ Cs source, not more than	5 sec
Instrument remains operable after short-time exposure (10 minutes) to gamma radiation with dose rate up to	10 000 R/h (100 Sv/h)
Alarm types	Audio, Visual, Vibration
Memory	2000 history events
PC Communication	USB
Wireless Communication (PM1605BT*, PM1605A-BT*)	Bluetooth® 4.0 (BLE112 Bluetooth® low energy module)
Power Battery Battery discharge control External power supply	One AA battery/rechargeable battery Pictogram on LCD USB
Operating temperature	-22 up to +149 °F (-30 up to +65 °C)
Relative air humidity (+40 °C and lower)	up to 98 %
Protection degree	IP68 , instrument case protects against water during submersion for 2 hours at a depth of 3.3 ft (1 m)
Drop test	4.9 ft (1.5 m)
Dimensions	4.48x2.44x0.78 in (114x62x20 mm)
Weight (including battery)	0.55 lb (250 g)

*Contains FCC ID: QOQBLE112
Contains IC: 5123A-BGTBLE112

ANSI N42.33 (most relevant parts)

Design and specifications of the device can be changed without notice.


+982165565901

+982144584619

+989034119385

Tehran, Tehransar