

X-RAY AND GAMMA RADIATION PERSONAL DOSIMETER PM1630

SPECIFICATIONS

- **Dose equivalent (DE) measurement range:**
1.0 μ Sv - 10.0 Sv
- **DE measurement accuracy:** $\pm 15\%$
- **Dose equivalent rate (DER) measurement range:**
0.1 μ Sv/h - 1.0 Sv/h
- **DER measurement accuracy:** $\pm 15\%$
- **Energy range:** 15 keV - 1.5 MeV
- **Energy response relative to 0.662 MeV:**
- 29% ... +45%
- **Minimum pulse duration of X-ray and gamma radiation:** 2 ms
- **Thresholds:** 2 independent thresholds for both DE and DER
- **Alarm type:** visual and audible
- **Communication with digital devices:** Bluetooth
- **Automatic data logging:** 6000 data points
- **Possible wearing variants :**
 - in breast pocket (front clip)
 - on breast pocket (rear clip)
 - on any clothes item (with clip type "crocodile")
 - on the wrist (silicone band)
- **The color of PM1630 case:** for orders over 50 pcs, the color of the dosimeter case can be selected by the customer.
- **Power supply:** rechargeable battery (wireless charger provided)
- **Battery lifetime in run mode:**
 - ≥ 2 months with Bluetooth disabled and average dose rate up to 0.3 μ Sv/h
 - ≥ 10 days Bluetooth enabled and average dose rate up to 0.3 μ Sv/h
 - ≥ 8 h with Bluetooth enabled and average dose rate up to 1.0 Sv/h
- **Operating conditions:**
 - temperature: from -10 °C up to +50 °C
 - humidity: up to 98 % at +35 °C
 - atmospheric pressure: from 84 up to 106.7 kPa
- **Ingress protection:** IP67
- **Resistance to antiseptic:** yes
- **Drop test:** 1.5 m onto concrete surface
- **Dimensions:** 63 x 50 x 18 mm
- **Weight:** ≤ 50 g



 Wireless charging

PM1630 is equipped with Bluetooth module FCC ID: QQQ13, IC: 5123A-13.
The instrument is designed to meet the requirements of IEC 61526:2010, IEC 62743:2012 and ANSI N42.20.

Integration with APDS PM530 and APDS PM531



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