The RadEye PX is a modern compact multi-purpose survey meter for proportional counter tubes. General count rate and surface contamination measurements can be performed as well as dose rate measurements, typically with He-3 or BF$_3$ based Rem-counters.

As part of the growing RadEye product family of high-end stand-alone meters, the RadEye PX is designed to exceed the most demanding user expectations. All settings and the data analysis can be done by an optional Windows™-based PC-software and a reader device. The last 1500 mean and maximum values of the count rate or dose rate are recorded internally and can be read out via a serial interface. Additionally the RadEye PX logs the last 250 alarms, error messages and changes of the configuration.

Operation modes:
- Scaler / Timer with preset count and preset time for sample measurements
- Continuous ratemeter mode for frisker operation
- Simultaneous $\alpha$ / $\beta$ and gross / ROI operation (distinct audible indication for each measuring channel)

Key Features and Benefits
- The RadEye PX can operate with proportional counter tubes
- Up to 16 different probe configurations are selectable in a submenu
- Easy to replace probes in-the-field, with a simple button-push
- Weighs only 160 g (5.6 oz) with rubber protection, without cable, 110 x 67 x 62 mm (4.3" x 2.6" x 2.4")
- Traditional probes can be used for one and two hand operation
- Versatile operation modes
- RadEye BTcom cover for Bluetooth® communication

Options and Specifications

RadEye PX Specifications

Measured quantities: Count rate (cps, cpm), surface contamination (Bq, dps, dpm, Bq/cm²), dose rate (R/h, Sv/h, rem/h).

Background subtraction: In count rate and contamination mode.

Measuring range: Default: 100,000 cps - extendable by individual probe calibration.

Probe cables: RG 58, max. 1.5 m (59") – MHV connector.

High voltage range: 100 V...2300 V with output impedance 2 MΩ.

Probe library: 16 different detectors with corresponding high voltage, calibration factor, dead time correction, overload threshold, detector area and timeout for detector failure.

Alarm threshold: Two alarm thresholds for count rate, activity, dose and dose rate each.

Audible alarm intensity: 80 dB at a distance of 30 cm (11.8").

Working temperature: -20°C ... + 50°C (-4°F ... 122°F).

Relative humidity: 10 ... 90 % at 35°C (95°F) not condensing.

Operating voltage: 1,8 ... 4 V, battery low voltage starting from 2.3 V.

Scaler/Timer: Preset count, preset time.

EMC: Disturbance emission: EN 61000-6-3, Immunity: EN 61000-6-2.

Size: 110 mm x 67 mm x 62 mm (4.3" x 2.6" x 2.4"), with rubber protection, without cable.

Weight: Around 160 g (5.6 oz) including AAA cells and protection sleeve.

Internal memory: The last 1500 measured values are saved and can be read out via PC program. Max and mean value of count rate and dose rate. The time interval is factory preset to 120 s by default. As well scaler measurements and momentaneous readings can be stored manually. Logbook with 250 entries for changes of configuration, occurring alarms and errors.

Averaging filters: Ratemeter filter type: Advanced Digital Filter (ADF), Digital RC-Filter with time constant, 1s...180 s, depending on count rate and count rate change.

Battery life time: Approx. 200 h.

RadEye PX Accessories

- Transparent case with lanyard # 425067044
- Probes cables MHV to MHV, SHV to MHV and MHV to PET, various lengths available
- RadEye PX adapter for NRD # 425069501
- RadEye PX adapter for Wendi # 425069460
- Right-angle-plug converter # KT 162245107
- Battery lid # 425067034 for inductive chargers
- The RadEye BTcom cover with manual and RadEye exe update installation file # 425067087
- Desktop holder and inductive charger # 425067083