

Thermo Scientific RadEye PX

Survey meter for external proportional detectors

The Thermo Scientific RadEye PX survey meter is a modern light weight multi-purpose meter for Rem-Counters and surface contamination detectors based on proportional counter tubes.

Features and Benefits

- The RadEye PX meter can operate with proportional detectors
- Up to 16 different detector configurations are selectable in a submenu
- Easy to replace detectors 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



The Thermo Scientific™ RadEye™ PX meter is a modern compact multi-purpose survey meter. Count rate and surface contamination measurements can be performed as well as dose rate measurements in combination with gas filled proportional counter tubes.

For neutron dose rate measurements, which are typically operated in combination with He-3 or BF3 based Rem-counters, the new RadEye PX meter is an excellent replacement for the much larger and heavier E-600 and ASP-2 style meters.

As part of the growing RadEye meter product family of high-end stand-alone meters, the RadEye PX meter is designed to exceed the most demanding user expectations.

Due to the clear and large display and simple keypad operation all essential functions and software parameters can be easily accessed.

The display and the alarm-LED can be seen while the instrument is worn in the transparent case.

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 meter logs the last 250 alarms, error messages and changes of the configuration.

Operation modes:

- Ratemeter / survey meter mode
- Scaler / timer with preset count and preset time for sample measurements
- Simultaneous a / b and gross / ROI operation (distinct audible indication for each measuring channel)



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RadEye PX Specifications

Measured quantities	Count rate (cps, cpm), surface contamination (Bq, dps, dpm, Bq/cm ²), 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 M Ω .
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



The RadEye BCom cover for wireless communication with manual and RadEye.exe update installation file
425067087



Probe cables MHV to MHV, SHV to MHV and MHV to PET, various lengths available



Right-angle-plug converter
KT 162245107



RadEye PX adapter for NRD-Rem-Counter
425069501



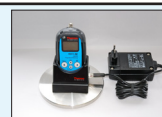
RadEye PX adapter for (S) Wendi-Rem-Counter
425069460



Battery lid # 425067034 for inductive chargers



Desktop holder and inductive charger # 425067083



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