

Multi purpose survey meter for external proportional detectors



RadEye PX survey meter



Compact and versatile

The Thermo Scientific™ RadEye PX is a multi-purpose survey meter for proportional detectors. Count rate and surface contamination measurements can be performed as well as dose rate measurements typically with He-3 or BF3 based Rem-counters.

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 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 α / β and gross / ROI operation (distinct audible indication for each measuring channel)

Key features and benefits

- 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
- RadEye BTcom cover for Bluetooth® communication





RadEye PX Survey Meter

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 to 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 to + 50°C (-4°F to 122°F)
Relative humidity	10 to 90 % at 35°C (95°F) not condensing
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
Averaging filters	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.
False alarm rate:	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 BTcom cover 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 # 425069501



RadEye PX adapter for Wendi # 425069460



Battery lid # 425067034 for inductive chargers



Desktop holder and inductive charger # 425067083



Find out more at thermofisher.com/radiationmeasurement

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