

The RadEye SX is a modern and compact multi purpose meter for external scintillator counter tubes.

## RadEye SX

Multi Purpose Survey Meter

- The RadEye SX can operate with dual phosphor  $\alpha$  /  $\beta$ , NaI(Tl) and plastic probes
- 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 mm x 67 mm x 62 mm (4.3" x 2.6" x 2.4")
- Versatile 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)



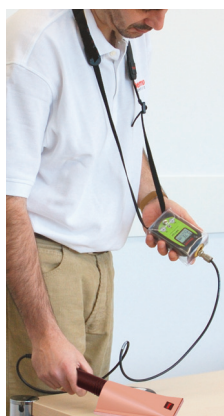
The RadEye SX is a modern compact multi-purpose survey meter for external scintillator counter tubes. General count rate and surface contamination measurements can be performed as well as dose rate measurements.

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

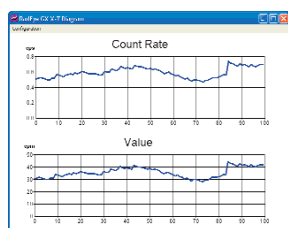
Due to the clear and large display all essential functions and software parameters can be easily accessed.

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



Transparent case with lanyard



RadEye SX software screen

## RadEye SX Accessories



Transparent case with lanyard  
# 425067044



Holder with vacuum cup and  
goose neck # 425522005



Battery lid # 425067034  
for inductive chargers



Right-angle-plug  
# KT 162245107



Desktop holder and inductive  
charger # 425067083



Inductive charger  
# 425067065

## RadEye SX Technical Data

Measured quantities	Count rate (cps, cpm), surface contamination (Bq, dps, dpm, Bq/cm <sup>2</sup> ), 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... 1400 V with output impedance 1 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)
Storage temperature	-25°C ... + 50°C (-13°F ... 122°F)
Ambient air pressure	700 hPa ... 1100 hPa
Relative humidity	10 ... 90 % at 35°C (95°F) not condensing
Operating voltage	1,8 ... 4 V, battery low voltage starting from 2.1 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. 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 dose rate and dose rate change.
Battery life time	Depends on external detector (required high voltage and dynode chain impedance), > 500 h for instrument alone.

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[www.thermo.com](http://www.thermo.com)

**USA:**  
27 Forge Parkway  
Franklin MA 02038  
USA  
+1 (800) 274-4212  
+1 (508) 520 2815 fax

**UK:**  
Bath Road  
Beenham, Reading RG7 5PR  
England  
+44 (0) 118 971 2121  
+44 (0) 118 971 2835 fax

**Germany/International:**  
Frauenauracher Straße 96  
D 91056 Erlangen  
Germany  
+49 (0) 9131 998-0  
+49 (0) 9131 998-205 fax

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