

Innovative Industrial Solutions



I.I.S.

RadEye PX

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 5.6 oz with rubber protection, without cable, 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



RadEye BTcom cover for Bluetooth® communication



Survey meter for external proportional detectors

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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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	1000 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	-4°F - 122°F
Relative humidity	10 ... 90 % at 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	4.3" x 2.6" x 2.4", with rubber protection, without cable.
Weight	Around 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	Rate meter 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



BTcom cover with manual and RadEye.exe update file



Probe cables MHV to MHV and MHV to PET, various length available



Battery lid for inductive chargers



Adapter for NRD-Rem-Counter



Holder with vacuum cup and goose neck



Right angle plug converter



Desktop holder and inductive charger

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