

NOMEX[®] Dosemeter

True Precision. PTW.



Connect ...



Shadow-Free Ionization Chamber, 6 cm³



R/F/D Diagnostic Detector



NOMEX® Multimeter



CT Ionization Chamber, 100 mm



SL Survey Detector

NOMEX[®] Dosemeter

- ▶ CE marked, class IIb certified diagnostic dosimetry system, fully compliant with IEC 61674 for acceptance testing and quality control measurements on RAD, FLU, DENT, CT and MAM X-ray units (different sets available e.g. for RAD/FLU, DENT, CT, MAM, X-ray therapy)
- ▶ Field-class electrometer acc. IEC 60731 for air kerma measurements e.g. in X-ray/orthovoltage therapy (e.g. in combination with a Farmer chamber 0.6 cm³ or with the Soft X-ray chamber 0.2 cm³)
- ▶ Allows to connect either a semi-conductor detector, CT ionization chamber or a shadow-free ionization chamber for no interferences with the AEC
- ▶ Combined with the NOMEX[®] Multimeter and NOMEX[®] mAs, a single exposure simultaneously captures dose, dose rate, dose per pulse, pulses, frequency, irradiation time, tube voltage, total filtration, half value layer and waveforms for both kV and dose rate and mAs
- ▶ Provides for automatic air density correction
- ▶ Stores the last measurements and allows data and waveform export to Track-it[®] or as XLS, XML or CSV file via USB or Bluetooth[®]
- ▶ Software menu available in different languages: Chinese, English, French, German, Italian, Japanese, Portuguese, Russian, Spanish

NOMEX[®] Dosemeter

Technical Data

Standard IEC 61674, IEC 60731 (K_A only), DIN EN 61010-1, IEC 61326-1

Measuring ranges (for diagnostic only)

Current	2 pA ... 23 μ A, < 2%
Resolution	\pm 20 fA
Charge	2 pC ... 230 mC, < 2%
Resolution	\pm 10 fC
Irradiation time	1 ms ... 298 h, \pm 1 ms
Pulse	(0 ... 99999), \pm 1 pulse
Frequency	(0.2 ... 500) Hz

The respective measuring range depends on the detector connected, e.g. PTW R/F/D detector, MAM detector and CT ionization chamber:

Air kerma rate R/F/D	40 nGy/s ... 460 mGy/s
Air kerma R/F/D	40 nGy ... 4.6 kGy
Resolution	0.4 nGy/s
Air kerma rate MAM	130 nGy/s ... 1.5 Gy/s
Air kerma MAM	130 nGy ... 15 kGy
Resolution	1.3 nGy
Air kerma rate CT	140 μ Gycm/s ... 1.6 kGycm/s
Air kerma CT	140 μ Gycm ... 16 MGycm
Resolution	1.4 μ Gycm/s
Energy dependence	$\leq \pm$ 5 %

PC interface USB V2.0 High-Speed, Bluetooth[®] 2.1 + EDR

Outer dimensions 160 mm x 150 mm x 40 mm

Weight 550 g, incl. batteries

Accessories

[TL60004]	R/F/D detector
[TL60005]	MAM detector
[TL34060-2.5]	SFD diagnostic chamber, 75 cm ³
[TL34069-2.5]	SFD MAM chamber, 6 cm ³
[TL30009]	CT ion chamber 3.14 cm ³ , 100 mm long
[TL30017]	CT ion chamber 9.3 cm ³ , 300 mm long
[T30010]	Farmer chamber 0.6 cm ³
[T31021]	Semiflex 3D ion chamber 0.07 cm ³
[T23344]	Soft X-ray chamber 0.2 cm ³



Ordering information

[L981816] NOMEX[®] Dosemeter

incl. NOMEX[®] Software, BT[®] adapter, USB cables, power supply and a transport case. NOMEX[®] Multimeter, external semiconductor detectors or ionization chambers can be connected.

[E41100B,S,G] Service contract NOMEX[®] Dosemeter Bronze, Silver, Gold

Different sets each with/without the NOMEX Multimeter and each with/without mAs option are available.

©PTW. All Rights Reserved. D909.139.01/04. Effective 2019-01. Previous specifications are void.

PTW

Knowing what
responsibility means