



DOSE-X

Next-Generation Reference Class Electrometer

Exceeding IEC 60731 standards

DOSE-X

Reference Class Electrometer

Meaningful innovation for your absolute dose measurements

The DOSE-X is a portable reference class electrometer exceeding IEC 60731 standards. Featuring high-precision technology, easy-to-use functionality and an intuitive user interface, the DOSE-X provides accurate measurements for your absolute dosimetry needs. Convenient automation, optimized workflows, and enhanced flexibility support your time-saving and efficient measurement protocols.



Stand-alone and remote access with full functionality

- Full remote access* through a web-browser
- Flash compatible
- Supports your TG-51 QA protocols
- Connectivity via WiFi*, Ethernet* or USB 3.0 Host.

Supports all correction factors

- $k_{user}, k_Q, k_{Tp}, k_{pol}, k_S$
- Device calibration factor enables cross calibration to a department reference electrometer
- Constant monitoring of measurement parameters

Library functions

- Extended detector library
- Check source library*
- Machine library

Fully documented API*

- Operate your DOSE-X remotely with API through your preferred software environment

Intuitive 10-inch HD touch screen

- Easy and efficient overview on one screen
- Workflow-optimized next-generation user interface

Use

Ref Class IEC 60731

Channels

1

Display

10" HD Touch

Languages

de, en, es, fr, it, pt, ru, jp, cn, kr

Connectivity

Ethernet LAN 1 Gbit/s*, Wi-Fi [802.11ac/b/g/n]*, USB 3.0 Host

Dimensions [mm × mm × mm]

249.7 × 201.9 × 123.4

Weight

4.6 kg

Power supply

100 - 240 V, 50/60 Hz

Range [current]

400 fA ... 24 μA

Range [charge]

4 pC

Resolution [current]

0.1 fA

Resolution [charge]

0.1 fC

Measurement modes

Manual, Automatic, Timed

Repeatability

$< \pm 0.25 \%$ [$\leq \pm 0.25 \%$ IEC 60731]

Long-term stability

$\leq \pm 0.2 \%$ [$\leq \pm 0.5 \%$ over one year, IEC 60731]

Response-time

$< 1.5 \text{ s}$

Non-linearity

$\leq \pm 0.25 \%$ [$\leq \pm 0.5 \%$, IEC 60731]

Zero drift

$\leq \pm 0.25 \%$ [$\leq \pm 0.5 \%$, IEC 60731]

Bias voltage

$\pm 50 \text{ V} \dots \pm 500 \text{ V}, \pm 2 \%$

Zeroing

60 s [default]

Configurations

TNC Triax, BNC Triax [Adapter]

IBA Dosimetry

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* Coming with FW update 06/2023

