



# Calibration Request for Measuring Systems in terms of $N_{D,w}$ / $N_K$ / $N_{KLP}$ / $N_{KAP}$ (kilovoltage x-ray beams)

## 1 General information

Customer <i>Name and full address</i>	
Contact person <i>Name, telephone and e-mail</i>	Name:
	Tel: <span style="float: right;">E-mail:</span>

## 2 Official authorization

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Signature:  

Please fill in the entries and submit the form using the submit button, or fax it to IBA Dosimetry Service, fax №: + 49 (9128) 607 10, or e-mail the file to [service@iba-group.com](mailto:service@iba-group.com) (subject: calibration request). Thank you for your request!

Comments	
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The calibration certificate shall contain a recommendation on the calibration interval.

*Note: According to DIN EN ISO/IEC 17025:2005 Chapter 5.10.4.4 a calibration certificate shall not contain any recommendations on the calibration interval, except where this has been agreed with the customer. DIN EN ISO/IEC 17025:2005 is a German adoption of ISO /IEC 17025:2005.*

The calibration will be performed according to the IAEA TRS-398/TRS-277/TRS-457, AAPM TG-61, DIN 6809-4, or DIN 6809-5 dosimetry protocols. Calibrations according to other national and international dosimetry protocols are available upon request.

*Please include chamber build-up caps (if applicable) or waterproof sleeves in case of in-water calibrations (TH only) of non-waterproof chambers. For TW qualities, please send the plastic phantom and the electron compensator foils with your chamber.*

*If you are sending radioactive check sources, please send also their leak-test certificates, a copy of the respective permit decision, and the appropriate chamber adapters.*

## 3 Description of the items to be calibrated

### 3.1 Display device (electrometer, maximum 1)

Manufacturer	
Model/Type	
Serial №	

*If your electrometer's manufacturer is other than IBA Dosimetry (or Scanditronics-Wellhöfer), please consider that we are not authorized to perform any repair or internal adjustment of the device.*

*Please submit a separate request for each chamber.*



### 3.2 Ionization chamber

Manufacturer			
Model/Type			
Serial №			
Polarizing voltage and collecting electrode polarity	Polarizing voltage: V	Collecting electrode polarity: + -	
With/without electrometer calibration	calibration with the electrometer specified in paragraph 3.1	calibration without an electrometer	
Type of calibration	factory calibration	accredited calibration (SSDL)	

Beam quality	Air kerma	Dose to water	Kerma length product	Kerma area product	U [kV]	HVL [mm Al]	Standard
TH50	$N_K$		$N_{KLP}$	$N_{KAP}$	50	2.3	DIN 6809-5
TH70	$N_K$		$N_{KLP}$	$N_{KAP}$	70	3.1	DIN 6809-5
TH100	$N_K$	$N_{D,w}$	$N_{KLP}$	$N_{KAP}$	100	4.6	DIN 6809-5
TH120	$N_K$	$N_{D,w}$	$N_{KLP}$	$N_{KAP}$	120	6.3	DIN 6809-5
TH140	$N_K$	$N_{D,w}$	$N_{KLP}$	$N_{KAP}$	140	8.3	DIN 6809-5
TH150	$N_K$	$N_{D,w}$	$N_{KLP}$	$N_{KAP}$	150	11	DIN 6809-5
TH200	$N_K$	$N_{D,w}$		$N_{KAP}$	200	15	DIN 6809-5
TH250	$N_K$	$N_{D,w}$		$N_{KAP}$	250	17	DIN 6809-5
TH280	$N_K$	$N_{D,w}$		$N_{KAP}$	280	19	DIN 6809-5
TW20		$N_{D,w}$			20	0.12	DIN 6809-4
TW30		$N_{D,w}$			30	0.37	DIN 6809-4
TW40		$N_{D,w}$			40	0.73	DIN 6809-4
TW50		$N_{D,w}$			50	1.0	DIN 6809-4
TW70		$N_{D,w}$			70	3.1	DIN 6809-4
TW100		$N_{D,w}$			100	4.7	DIN 6809-4
RQR2	$N_K$		$N_{KLP}$	$N_{KAP}$	40	1.4	IEC 61267
RQR3	$N_K$		$N_{KLP}$	$N_{KAP}$	50	1.7	IEC 61267
RQR4	$N_K$		$N_{KLP}$	$N_{KAP}$	60	2.2	IEC 61267
RQR5	$N_K$		$N_{KLP}$	$N_{KAP}$	70	2.5	IEC 61267
RQR6	$N_K$		$N_{KLP}$	$N_{KAP}$	80	3.0	IEC 61267
RQR7	$N_K$		$N_{KLP}$	$N_{KAP}$	90	3.4	IEC 61267
RQR8	$N_K$		$N_{KLP}$	$N_{KAP}$	100	3.9	IEC 61267
RQR9	$N_K$		$N_{KLP}$	$N_{KAP}$	120	5.0	IEC 61267
RQR10	$N_K$		$N_{KLP}$	$N_{KAP}$	150	6.4	IEC 61267
RQA2	$N_K$		$N_{KLP}$	$N_{KAP}$	40	2.2	IEC 61267
RQA3	$N_K$		$N_{KLP}$	$N_{KAP}$	50	3.8	IEC 61267
RQA4	$N_K$		$N_{KLP}$	$N_{KAP}$	60	5.3	IEC 61267
RQA5	$N_K$		$N_{KLP}$	$N_{KAP}$	70	6.8	IEC 61267
RQA6	$N_K$		$N_{KLP}$	$N_{KAP}$	80	8.1	IEC 61267
RQA7	$N_K$		$N_{KLP}$	$N_{KAP}$	90	9.2	IEC 61267
RQA8	$N_K$		$N_{KLP}$	$N_{KAP}$	100	10	IEC 61267
RQA9	$N_K$		$N_{KLP}$	$N_{KAP}$	120	12	IEC 61267
RQA10	$N_K$		$N_{KLP}$	$N_{KAP}$	150	13	IEC 61267
RQT8	$N_K$		$N_{KLP}$	$N_{KAP}$	100	7.0	IEC 61267
RQT9	$N_K$		$N_{KLP}$	$N_{KAP}$	120	8.5	IEC 61267
RQT10	$N_K$		$N_{KLP}$	$N_{KAP}$	150	10	IEC 61267