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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 *Name and full address*	
Contact person *Name, telephone and e-mail*	Name: Tel: E-mail:

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 (subject: calibration request). Thank you for your request!

Comments	

☐ 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	IBA Dosimetry
Model/Type	MagicMaX Universal
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	IBA Dosimetry	
Model/Type	XR	
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