

Calibration Request for Electrometer in terms of DC current

1. General Information

Customer Name and full address		
Contact person	Name:	
Name, telephone, and e-mail	Tel:	E-mail:
I would like to	receive a quote. ⑦	
-	uthorization	
Name:	Date:	Signature:
		submit button or e-mail the file to quest). Thank you for your request!
Comments:		
The calibration c	ertificate shall contain a recomm	endation on the calibration interval.
		n certificate or calibration label shall not contain any recommendation on . DIN EN ISO/IEC 17025:2018 is a German adoption of ISO/IEC
3. Description	on of the Item to be C	Calibrated

Dosemeter (electrometer, maximum 1):

No. of Channels:

Serial №	
Manufacturer	
Model/Type	

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.

If you are sending more than one electrometer, please submit a separate request for each electrometer.

Please select the calibration type and enter the necessary information.



Basic Calibration – IBA electrometers only

Dose 1: Calibration points: ± 1 nA in the "0 – 10nA" range.

Dose 2: Calibration points (each channel): ± 100 pA in the "Low" range and ± 1 nA in the "High" range.

Custom Calibration (?)

No. of Points	Electrometer Range E.g., "High", "Medium", or "0 - 10nA"	Calibration Points Select points from the scope of ± 1 pA to $\pm 10 \ \mu$ A
1		±
2		±
3		±
4		±
5		±
6		±
7		±
8		±

Standard Calibration

Standard (Calibration of Electrometer in terms of DC Current or Charge
No. 1	4 calibration points at \pm 100 pA and \pm 1 nA.
No. 2	6 calibration points at ± 10 pA, ± 100 pA and ± 1nA

Calibration with Linearity Check ②

Requested calibration extent	Lowest val	lue: ±	Highest value [§] : ±
		Cal	ibration Points
Linearity check calibration	on 1 *	at 10	0 % of the decade ¹
Linearity check calibration	on 2 **	at 50 % an	d 100 % of the decade ¹
Linearity check calibration	on 3 ***	at 20 %, 50 %	and 100 % of the decade ¹
Linearity check calibration	on IEC	Please refer to	o IEC 60731 chapter 6.2.3

 $^{\$}$ The calibrated extent will cover four decades starting from the given lowest value. The entire extent needs to be within the range of 1 pA up to 10 μ A.

Example: For a single channel dosemeter, if the requested extent is ± 1 pA to ± 10 nA, 2×4 decades will be calibrated: 8(*), 16(**), or 24(***) calibration points.

¹ "Decade" to be understood as a factor of 10 difference between two numbers (an order of magnitude difference) on a logarithmic scale

e-mail the file to service-emea@iba-group.com (subject: Calibration Request)



For Internal Use Only

DL No.

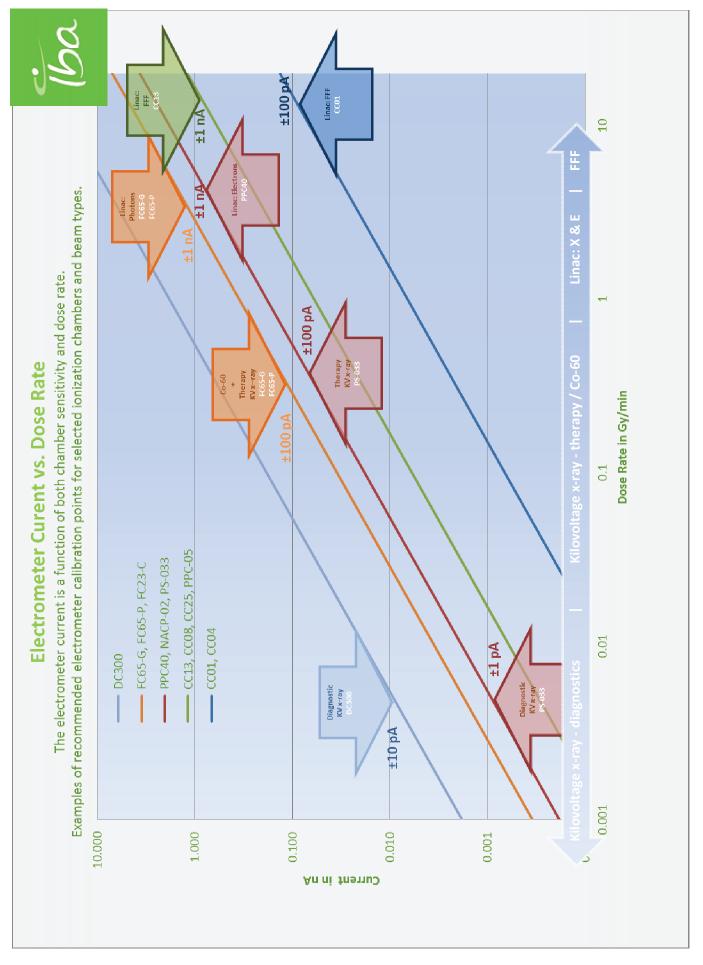
Electrometer Calibration Guide

Recommended electrometer calibration points with respect to beam type and chamber used For given beam types, points of typically used absolute dosimetry chambers are highlighted

-ja 190	

Chamber Type	Chamber sensitivity			Beam Type and T	Beam Type and Typical Dose Rate		
	nC/Gy	Diagnostic KV x-ray	Therapy KV x-ray	Co-60	Linac: Electrons	Linac: Photons	
		4 mGy/min	1 Gy/min	1 Gy/min	6 Gy/min	6 Gy/min	20 Gy/min
cc01	0.4			±10 pA	±10 pA	±10 pA	±100 pA
CC04	1.0			±10 pA	±100 pA	±100 pA	±100 pA
CC08	1.9			±10 pA	±100 pA	±100 pA	±1 nA
CC13	3.6			±100 pA	±100 pA	±100 pA	±1 nA
CC25	7.5			±100 pA	±1 nA	±1 nA	±1 nA
FC23-C	7.2		±100 pA	±100 pA	±1 nA	±1 nA	±1 nA
FC65-G	21		±100 pA	±100 pA	±1 nA	±1 nA	±1 nA
FC65-P			±100 pA	±100 pA	±1 nA	±1 nA	±1 nA
PPC05	1.7			±10 pA	±100 pA	±100 pA	
PPC40	1		±100 pA	±100 pA	±1 nA	±1 nA	
NACP-02	6.0		±100 pA	±100 pA	±1 nA	±1 nA	
PS-033	16	±1 pA	±100 pA	±100 pA	±1 nA	±1 nA	
DC300	110	±10 pA	±1 nA	±1 nA			

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