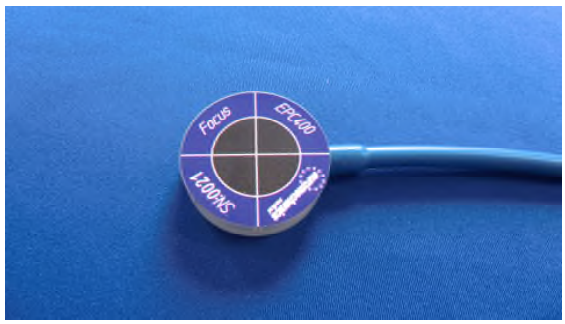
Technical Data Sheet



EPC400 Plane Parallel Chamber 0.4 cc

- Description:

  The ionization chamber EPC400 is a waterproof therapy ionization chamber for absolute dosimetry in high-energy electron beams. The measuring volume of 0.4 cc and mechanical design is close to the recommendations by Dr. Roos. The entrance window is made of 1mm PMMA, the chamber volume is vented through the cable connector. EPC400 is delivered with a calibration certificate. EPC400 can be used also for depth dose curves in photon beams, and as well in particle beams.

- Intended use:

  - Absolute Dosimetry in high energy electron beams
  - For use in water and solid plastic phantoms

- Specifications:

  - Air ionization chamber, plane parallel design, water proof, vented
  - Fully guarded design
  - Supplied with calibration certificate for ^{60}Co calibration
  - Measuring quantity: Absorbed dose to water
  - Nominal energy range for photons and electrons: 2 – 35MeV
  - Useful field size: 4x4 to 40x40 cm^2
  - Typical response: 11 nC/Gy
  - Chamber voltage: 100V – 300V max.
  - Temperature range 10 – 40ºC
  - Humidity range 10 – 80 %
  - Connector type — BNC / TNC triaxial
  - Length of connection cable — 200 cm

- Material:

  - Outer electrode — PMMA (1.19 g / cm³)
  - Inner electrode — PMMA (1.19 g / cm³)

- Dimensions

  - Active volume — 0.4 cm³
  - Cylinder height — 2.0 mm
  - Wall thickness — 1.0 mm
  - Diameter of inner electrode — 16.0 mm
  - Effective measure point in water — 1.0 mm below the chamber surface
  - Effective measure point in air — 2.0 mm below the chamber surface
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LGA InterCert Zertifiziertes QM-System DIN EN ISO 13485:2010
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