## Technical description

### Parallel Plate Chamber PPC05

**Application**
- absolute dosimetry of electron, photon and proton beams in radiotherapy
- the conventional ionisation chamber type for electron dosimetry
- measurements in air, in solid or in water phantoms

**Features**
- air ionisation chamber
- high spatial resolution
- suitable for all phantom cut-outs and holders originally designed for the Markus chamber®
- waterproof
- vented through waterproof sleeve
- fully guarded
- supplied with individual factory calibration certificate and user’s guide

**Material**
- outer electrode: Shonka C552 (1.76 g/cm³)
- inner electrode: PEEK graphitised (1.32 g/cm³)

**Active Dimensions**
- volume (nominal): 0.05 cm³
- cylinder height: 0.6 mm
- front window thickness: 1.0 mm
- diameter of inner electrode: 9.9 mm

**Cable & Connector**
- connector type: TNC triaxial
- cable length: 1.40 m

**Operational Data**
- leakage current: < ± 5 x 10⁻¹⁵ A
- sensitivity: 2 x 10⁻⁹ C/Gy
- radiation quality (e⁻): > 2 MeV
- polarising voltage: + 300 V
- reference point in water: 1.0 mm below the outer surface

* add 0.2 mm for tolerance if you intend to make adapters

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Technical data subject to change without prior notice.