GRAETZ Probes

for the dose rate measuring system X5C *plus*

- PTB-approved gamma probes for the measurand Ḣ*(10) (ambient dose equivalent rate) and pulse probes for extending the measuring range of the basic unit
- for measurements at „hard-to-get-to“ places
- Telescope Probe DE for measurements from a safe distance at high dose rates (see separate documentation)
- automatic probe identification by the basic unit
- connectable to the basic unit either directly or by using a probe cable up to a max. length of 100 m (standard length: 1.25 m)
- the basic unit automatically displays the detected type of radiation

PTB-approved gamma probes

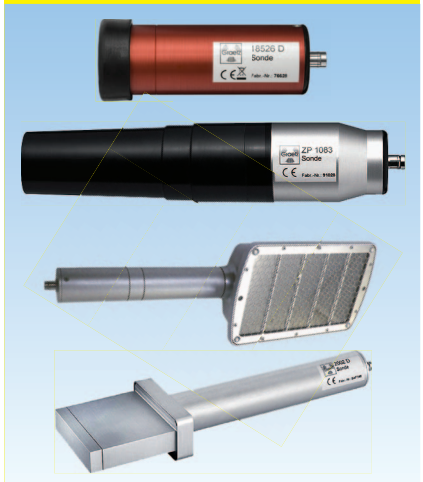
- the basic unit automatically takes over the probe specific calibration factor
- underwater measurements up to a depth of 30 m by using the pressurized water protective housing
- temperature range: -30°C up to +60°C
- measuring size: H*(10)

Type	Energy range	Measuring range	PTB-Approval [1]	Dimensions Weight
18509 CE	55 keV – 1.3 MeV	50 µSv/h – 1 Sv/h	23.71/05.01	length 110 mm, Ø 40 mm, 150 g
18529 CE	70 keV – 3 MeV	0.5 mSv/h – 10 Sv/h	23.71/05.02	length 110 mm, Ø 40 mm, 150 g
18545 CE	40 keV – 1.3 MeV	150 nSv/h – 200 µSv/h	23.71/05.03	length 345 mm, Ø 25/40 mm, 380 g
18550 CE	40 keV – 1.3 MeV	10 µSv/h – 20 mSv/h	23.71/05.04	length 110 mm, Ø 40 mm, 150 g

[1] PTB-approved measuring range for measurements specifically demanded by German regulations

Pulse probes (also connectable to GammaTwin S)

- probes for the detection of α-, β- and γ-contaminations
- high sensitive scintillation probe for the detection of β-/γ-radiation
- glass immersion counter tube ZP1083 for measurements in liquids
- indication range on the basic unit 0 – 20 kcps
- difference between gamma and pulse probes: basic unit effects a pulse rate measurement instead of dose rate measurement and a summation of triggered counts instead of dose measurement
- instead of the four dose and dose rate alarm thresholds, a pulse respectively a pulse rate alarm threshold can be set at the basic unit



Type	Type of radiation	Detector	Background [2] (counts/min)	Temperature range	Dimensions Weight
18526 D	α, β, γ	GM tube; effective surface 6,1 cm²	25	-30°C up to +60°C	length 110 mm, Ø 40 mm, 150 g
ZP1083	β, γ	GM tube; effective length 150 mm	54	-30°C up to +60°C	length 290 mm, Ø 50 mm, 277 g
ABG170	α, β, γ	plastic scintillator; effective surface 170 cm²	900 – 1500	-10°C up to +40°C	390x125x75) mm with handle 790 g
NaI-Scintillation Probe 2002	β, γ	NaI(Tl) scintillator; effective volume (70x70x13) mm	6000	-20°C up to +50°C [3]	(80x85x35) mm with handle 200 mm, 530 g

[2] at 0.1 µSv/h

[3] max. temperature change 10°C/h

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Subject to change