

Dose Rate Measuring System

X5C plus

for personal radiation protection

- dose rate meter for measuring gamma radiation and X-rays for the ambient dose equivalent rate $\dot{H}^*(10)$
- detector: energy compensated GM-tube
- large, digital indication of measured values on LC-display (illuminable)
- selectable dose rate or dose indication with integration time
- additional quasi-analogue indication of dose rate (3,5 decades, logarithmic bargraph)
- indication of peak and average dose rate value
- 4 free programmable dose and dose rate alarm thresholds
- automatic or manual storage of measured dose rate values together with date and time
- evaluation / indication of residual time for staying in the current radiation field with regard to the maximum allowed dose
- switchable acoustic single-pulse indication
- clear menu-driven user navigation for easy operation, partly secured by password
- storage of set parameters also when the device is switched off or during battery replacement
- continuous self-testing and monitoring ensure high reliability
- compact metallized housing made of high impact-proof plastic, easy to decontaminate, protection class IP67
- power supply by 9V-energy block 6LR61
- RS-232 interface
- basic unit can be combined either directly or by probe cable with various probes (see separate leaflet):
 - for extending the measuring range up to 10 Sv/h
 - for detecting α -, β - and γ -radiation
 - for measuring in liquids
 - for measurements at „hard-to-get-to“ places
 - Telescope Probe DE for measurements from a safe distance
 - Scintillation probe 2002 D for measuring low dose rates
- when using „CE“-probes, measurand is $\dot{H}^*(10)$ (ambient dose equivalent rate)
- when using „D/DE“-probes, measurand is H_x (photon dose equivalent rate)



Technical Data

Measuring ranges: <ul style="list-style-type: none">- dose rate- PTB-approved dose rate ¹⁾- dose:	0 nSv/h – 20 mSv/h 1,0 μ Sv/h – 20 mSv/h 0,5 μ Sv – 10 Sv
Energy range:	40 keV – 1,3 MeV
Dose rate alarm thresholds:	4, free programmable in the range 1 μ Sv/h – 20 mSv/h
Dose alarm thresholds:	4, free programmable in the range 1 μ Sv – 10 Sv
Temperature range:	-30 °C up to + 60 °C
Dimensions / Weight:	(152 x 82 x 39) mm / approx. 400 g
PTB – Approval No.:	23.51 / 04.01
German Fire Brigades Approval No.:	DW/FW/IdF 040411

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

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The logo for Extratech, featuring the word 'EXTRATECH' in a stylized, bold, blue font with a white outline, set against a white background.