

# Nal-Scintillation Probe 2002

## with photo multiplier for detecting $\beta$ - and $\gamma$ -radiation

### Product features

- ▲▲ High sensitivity
- ▲▲ Large detector surface
- ▲▲ Application fields:
  - nuclear medicine
  - environmental and scrap monitoring
  - security controls (police, customs, border authorities, factory inspectorates)
- ▲▲ By using a probe cable connectible as a pulse probe to the dose rate meters **GRAETZ X5C plus**, **X5C plus SE**, **X5C FW** and **GammaTwin S** and to the stationary room monitoring system **GRAETZ WS05**
- ▲▲ By using a probe cable connectible as a pulse probe to the contamination monitor **CoMo-170**
- ▲▲ Power supply from the basic unit



Technical Data	
Type of radiation:	$\beta$ , $\gamma$
Energy range:	$\beta$ : > 100 keV $\gamma$ and X-Rays: 25 keV – 2 MeV
Detector:	70 x 70 x 13 mm NaI (TI)-scintillator with photo multiplier
Reference orientation:	Vertical onto the square surface
Position of the detector:	Middle of the detector cap
Reference point:	Middle of the square surface
Background count rate*:	Approx. 135 cps
Range of relative humidity:	0 up to 90%, no influence
Range of outside air pressure:	600 up to 1300 hPa, influence negligible
Indication ranges:	0 – 200 cps 200 – 2000 cps 2 – 20 kcps (20 kcps $\approx$ 13 $\mu$ Sv/h referred to Cs <sup>137</sup> )
Temperature range:	Operation: -20°C up to +50°C Storage: -30°C up to +60°C (NOTE: max. temperature change 10°C/h)
Overload capacity:	Up to approx. 3 mSv/h (referred to Cs <sup>137</sup> )
After effect:	After exposure to radiation of 3 mSv/h, error after 20 minutes is approx. 5%
Voltage supply:	From the basic unit
Housing:	Aluminium, partly anodized, protection class IP65 (hose-proof)
Dimensions:	Approx. 80 x 85 x 35 mm with 200 mm handle ( $\varnothing$ 33 mm)
Weight:	Approx. 530 g

\* at 0.1  $\mu$ Sv/h