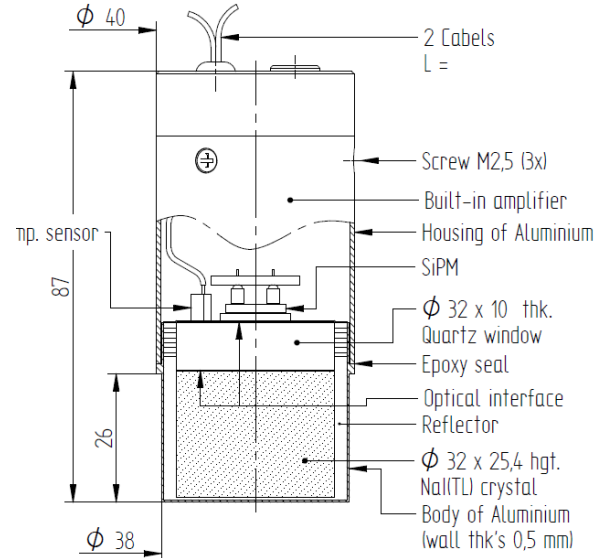


32B25.4/SIP-E3-T-X

Nal(Tl) / SiPm Scintillation detector with built-in temperature compensated bias generator and preamplifier

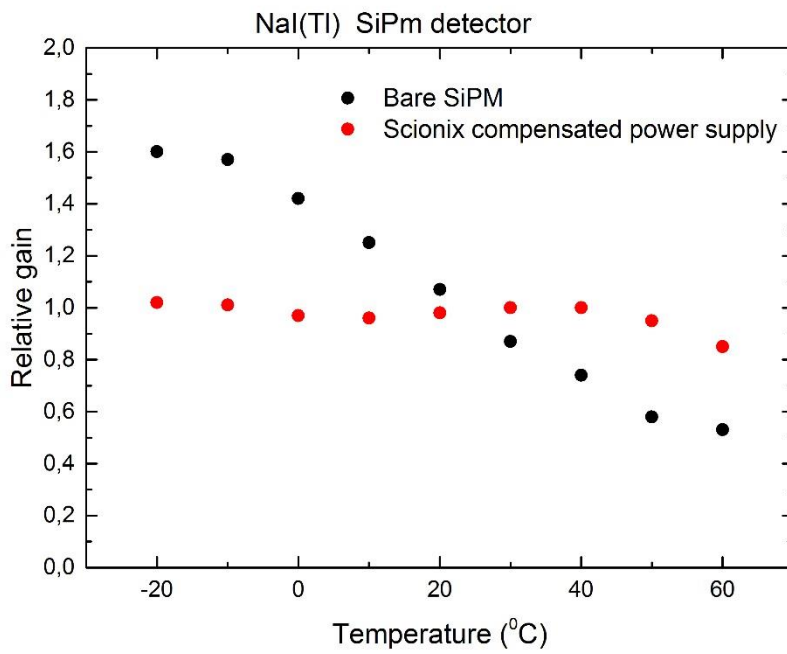
- Scintillation material** : Nal(Tl)
- Drawing number** : VS-1383-30
- Crystal read out** : 12 x 12 mm² SiPm
- Temperature sensor** : AD592
- Bias range** : 5.2 V – 16 V (25 mW)
- Test bias voltage** : 26.9 V, internally generated by power supply
- Electrical connections** : LEMO ERA.0S.302.CLL
 Pin 1: power supply 5.2 – 16 V
 Pin 2: signal
 Grounding provided via mass of connector
 Red cable temp sensor: + 4 – 30 V
 Black cable temp sensor: ground



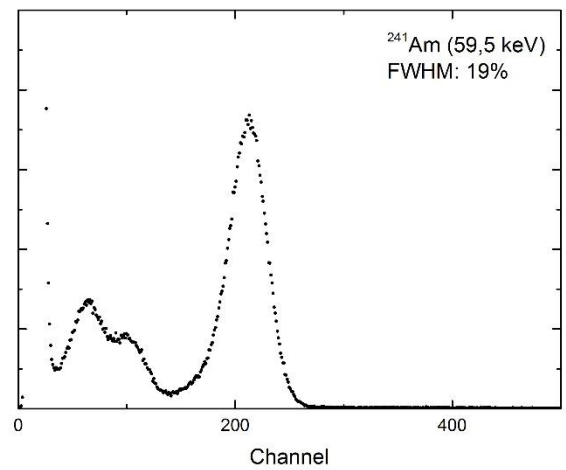
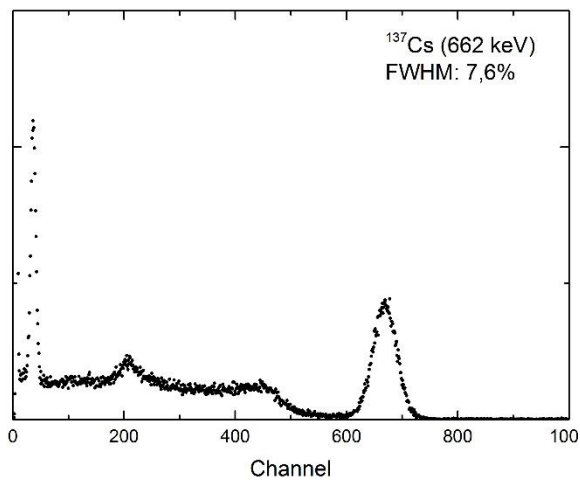
Preamplifier

- Output impedance** : 50 Ω
- Maximum output voltage:** 1 V
- Pulse fall time (1/e)** : 1.5 μ s
- Pulse rise time** : 900 ns
- Gain** : 380 mV / MeV
- Energy resolution** : < 8 % FWHM @ 662 keV
- Noise level** : < 10 keV





Detector gain versus temperature



Examples of pulse height spectra



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