The CURIEMENTOR 3 isotope calibrator is an instrument to measure the activity of radioactive isotopes as used in nuclear medicine and intravascular brachytherapy. It enables the user to select various measuring modes for vial and syringe measurement. Other applications include the calibration of nuclear medicine measuring equipment like gamma cameras or the brachytherapy seed measurement. Besides using state-of-the-art measuring technology, great importance has been attached to the design of the CURIEMENTOR 3 with respect to the needs of users. Working with radioactive material demands a high level of concentration, this must not be wasted by using measuring equipment complicately to handle. The display and keyboard panel with its flat keys is specially designed for intuitive handling and easy cleaning in case of radioactive contamination. The 1.8 m connection cable makes it possible to place the ionization chamber behind or within a shield. The measured data can be printed on labels by a label printer (optional) and transferred to a computer for further data processing via the RS232 interface. The delivery includes a manual in English.

### Ordering Information
L981108 CURIEMENTOR 3 isotope calibrator 100 V ... 230 V includes display unit, well-type ion chamber and liner
L971001 Radioactive check device $^{137}$Cs (3.7 MBq)

### Options
T33003.1.130 CURIEMENTOR lead shield
T33003.1.132 Additional CURIEMENTOR lead shield cap
T33003.1.140 CURIEMENTOR lead absorber to detect the molybdenum break-through
L991059 Label Printer DPT Companion Plus, 100 V ... 230 V

### Specification
- **Type of product**: CURIEMENTOR 3 microprocessor controlled radionuclide activity measuring system with gas-filled pressurized well-type ionization chamber
- **Application**: Measurement of radionuclide activity in diagnostic and therapeutic nuclear medicine and in brachytherapy
- **Measuring quantities**: Radioactivity (Becquerel Bq, Curie Ci) Current (Ampere A)
- **Measuring range**
  - **lower limit**: 0.1 MBq ($^{137}$Cs)
  - **upper limit**: 195 GBq ($^{137}$Cs)
- **Resolution**: 0.001 MBq ($^{137}$Cs)
- **Linearity**: ≤ 2 % acc. to IEC 61145
- **Reproducibility**: ≤ 5 % acc. to IEC 61145
- **Ion chamber gas**: Argon (10 bar)
- **Chamber voltage**: 400 V
- **Temperature range**: (10 ... 40) °C, (50 ... 104) °F
- **Relative humidity range**: (20 ... 75) %, max. 20 g/m³
- **Air pressure range**: (700 ... 1060) hPa
- **Interface**: Printer and RS232
- **Power supply**: (100 ... 230) VAC, (50 ... 60) Hz
- **Dimensions**
  - **Control unit**: 86 mm x 264 mm x 176 mm
  - **Ion chamber**: 3.39 in x 10.39 in x 6.93 in
- **Weight**
  - **Control unit**: approx. 2 kg, 4.4 lbs
  - **Ion chamber**: approx. 8.3 kg, 18.3 lbs

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**IEC 61145**: “Calibration and usage of ionization chamber systems for assay of radionuclides”

**Resolution and measuring ranges are depending on the selected isotope. The values stated are examples only.**