

DSN 3 γ environment spectrometric probe



DSN 3 Spectrometric probe is used for Environment surveillance of gamma energy spectrum. The probe includes either an NaI or Brilliance detector coupled to an integrated electronic processing board

The probe auto-compensates the shifts in energy (related to the sensitivity of the detector with respect to the temperature). The spectrum as well as the various parameters of configuration are accessible by the RS485 serial connection using a JBUS protocol.

Applications:

- ✓ Gamma environment surveillance
- ✓ Water spectrum and activity monitoring



Technical characteristics

- **Detectors** : He-3 tubes (length: 1m)
- **NaI 3"x3" or Brilliance 1.5"x1.5"** :
- **137Cs resolution** : 7% (NaI) or 3% (Brilliance)
- **Energy range** : 50 keV to 2 MeV
- **Nb of channels** : 1,024, 512 or 256
- **Dimensions** : L 530 mm, Ø 125 mm
- **Weight** : 6 kg
- **Housing**: IP65
- **Operating temperature** : -20°C to +45°C
- **Variation in temperature** : 8°C/hour max
- **Power supply** : 24 VDC - 6 W
- **Output** : RS485 - JBUS for data transfer and parameter setting up to 500 m away

- ✓ **1,024 channel analyser**
- ✓ **Environment probe**
- ✓ **Auto compensation of energy shift**
- ✓ **Brilliance crystal for improved energy resolution and excellent linearity**

