

# T DET Scintillator Detector

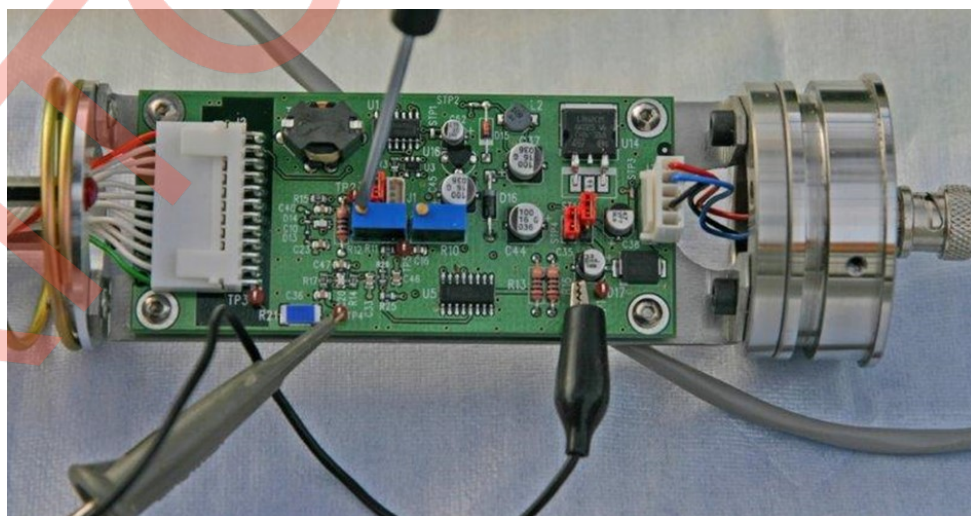


## DESCRIPTION

DS detector is in the form of a stainless steel or aluminium cylinder closed on one side with a panel receptacle at the other end (various connectors are available). The detector is connected to a cable (length from 50m to 150 m) on a spool for power supply and pulses transmission to the Data acquisition system

## DETECTION

The  $\gamma$  rays detection is obtained through a Sodium Iodide Thallium doped crystal (NaI(Tl)) associated to a photomultiplier. The typical dimensions of the crystal are :  
Diameter 25, 38 or 50 mm,  
Thickness 25 or 50 mm (other dimensions and crystal types may be available on request)

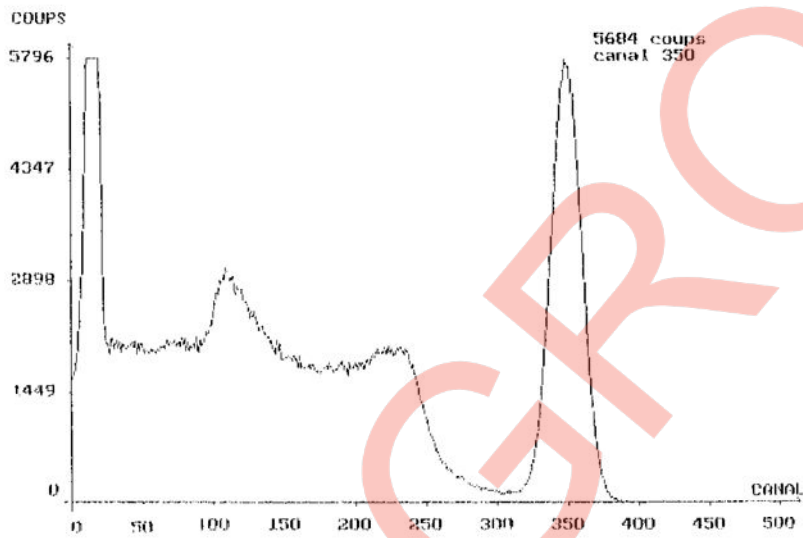


TEST REPORT  
scintillation crv.332

Isotope : 137Cs  
HT : 660 volts

Energie : 662 KeV  
PH : XP2072B/02

Resolution : 7.3 %  
N° PH : 23942



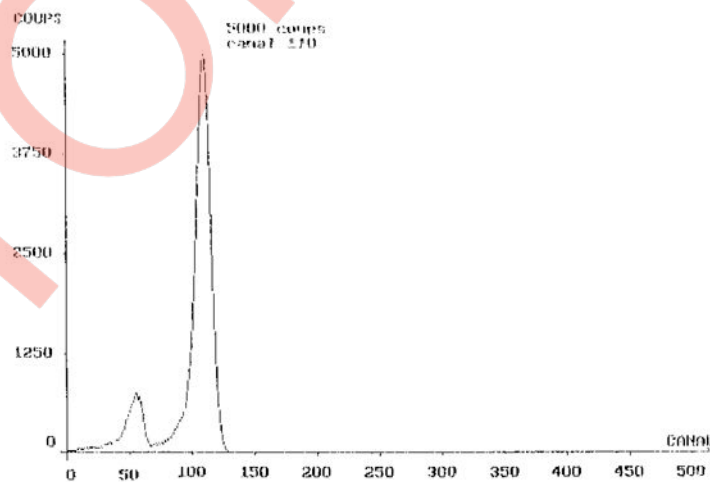
Detector response -  $\gamma$  spectrum for 137 Cs energy 662 keV

TEST REPORT  
scintillation crv.332

Isotope : 241Am  
HT : 759 volts

Energie : 60 KeV  
PH : XP2072B/02

Resolution : 15.6 %  
N° PH : 23942



Detector response -  $\gamma$  spectrum for 241 Am energy 60 keV